



QCWA Journal

Quarter Century Wireless Association - Founded in 1947

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The Virginia Air & Space Center (Photographs and story courtesy of Jim Wise, W4PRO)

Quarter Century Wireless Association
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QCWA Journal

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This month's cover: This month's cover shows the exterior of the **Virginia Air and Space Center**. The article by Jim Wise, W4PRO, and additional photos can be found starting on page 8. QCWA member Wally Carter, K4OGT has accumulated almost 7000 hours of service to the Center, establishing him as the perennial Docent of the Year.

DISCLAIMER: Opinions expressed by the authors of articles contributed to the Journal do not represent the official position of the Officers or Directors of the Quarter Century Wireless Association, Inc.

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1965 - 1968

Clarence Seid, W2KW (SK)

1969 - 1971

Barry Goldwater, K7UGA (SK)

1972 - 1973

Frank A. Gunther, W2ALS (SK)

1974 - 1977

Harry S. Gartsman, W6ATC

1978 - 1981

Stuart Meyer, W2GHK (SK)

1982 - 1985

Leland Smith, W5KL (SK)

1986 - 1989

Harry Dannels, W2HD

1989 - 1994

Lew McCoy, W1ICP (SK)

1994 - 1996

John Kelleher, W4ZC (SK)

1996 - 1998

Gary R. Harrison, KØBC

1998 - 2002

Croft Taylor, VE3CT

2002 - 2004

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Ralph Barber, W2ZM (SK)

1955 - 1964

Gus Gironda, W2JE (SK)

1965 - 1973

Ethel Smith, K4LMB (SK)

1974 - 1976

Ted Heithecker, W5EJ (SK)

1976 - 1991

Jim Walsh, W7LVN (SK)

1991 - 2003

The QCWA Journal

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From the **President**

John Johnston, W3BE



It is important that we pause annually to reflect upon just whom it is among us that we admire as our role models in helping to fulfill each of the five principles establishing the very basis and purpose for the type of amateur service our FCC expects us to provide in return for being allowed to use some highly valuable radio spectrum.

In our Winter Journal, the call went out for our Chapters to nominate QCWA members for our FCC Rules Section 97.1 Presidential Honor Awards for 2005. Our Chapters responded and, on March 29, 2006, our Chapter Relations Standing Committee Chair Harold Chase, W1EES, met with our General Manager, Chuck Walbridge, K1IGD, and me. After reviewing carefully the nominations received, the final selections were made. It is an honor to announce the recipients of our 2005 Presidential Honor Awards.

Section 97.1(a). For service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications: **Quentin Jones, KU4WD.** Nominated by Citrus Chapter #45 for his work in Field Day Activities.

Section 97.1(b). For continuing and extending the amateur operator's proven ability to contribute to the advancement of the radio art: **Hans Napfel, WB2ZZB.** Nominated by W3BE for his informative presentations on various technical topics of interest to amateur operators.

Section 97.1(c). For advancing skills in both the communication and technical phases of the radio arts: **Gordon West, WB6NOA.** Nominated by W3BE for his work in encouraging amateur operators to advance their communication and technological skills.

Section 97.1(d). For expanding the existing reservoir within our amateur service of trained operators, technicians and electronic experts: **Larocca (Rocky) Jones, KC4UXO,** of Gaithersburg, MD, nominated by Baltimore Chapter #20 for her efforts in coordinating the amateur operator training program with the Montgomery County (MD) Amateur Radio Club.

Section 97.1(e). For continuing and extending the amateur operator's unique ability to enhance international goodwill: **Ray Johnson, K5RJ,** of Vienna, VA, nominated by Vic Clark Chapter #91 for his efforts in support of the DXCC program.

It is also a great pleasure to announce the recipients of additional Presidential Honors Awards for 2005.

Gerd Schrick, WB8IFM, for his work in arranging the 2005 Chapter #9 QCWA Banquet during the Dayton Hamvention.

George Roach, VE3BNO, for his work as our 2005 QCWA Activities Manager.

Roberta and Mort Cohen, WA2ARS, for their outstanding efforts in flying our QCWA banner at the 2005 Orlando Hamcation.

Charles Walbridge, K1IGD, nominated by Twin State Chapter 146 for his outstanding work in promoting cooperation and friendship among amateur operators who were first licensed at least 25 years ago.

Congratulations to all of our award recipients. Thanks for making amateur radio the greatest hobby in the World. Thanks also to everyone who submitted a nomination.

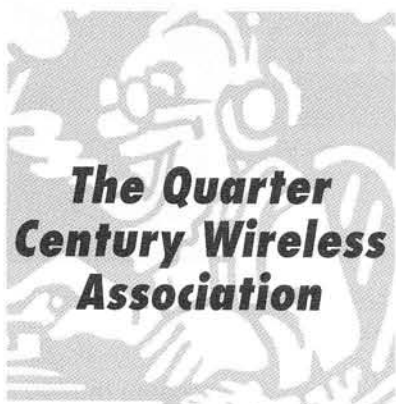
Recent visits included our Florida Citrus Chapter #45 (photo 1); Ft Meyers (FL) Edison Chapter #199 (photo 2); and Sun City Center (FL) Chapter #195 (photo 3.) Also, our QCWA Banner was flying proudly at numerous hamfests. These included the Ft Meyers Hamfest, the Orlando (FL) Hamcation (photo 4), the Northern Virginia Winterfest and the Greater Baltimore Hamboree and Computerfest.

Let's keep our banner flying!
DE W3BE



Citrus Chapter #45 officers witness Presidential Award recipient Bob Cumming, W2BZY, receiving congratulations from W3BE. L to R: Secretary Paul Turner, W1DLP; President Al LaPeter, W2AS; Treasurer Mort Cohen, WA2ARS; W2BZY and W3BE; Past-QCWA President Croft Taylor, VE3CT; and Vice-President Dave Flagg, N4BGH.

(photos continued on next page)



The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a noncommercial association of radio amateurs organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare.

QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986.

Its affairs are governed by a President, Vice President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership.

In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and must be currently licensed. Membership inquiries and general correspondence should be addressed to the business office at P.O. Box 3247, Framingham, MA 01705-3247 U.S.A. Telephone: 508-405-1930 FAX: 508-405-1965



Edison Chapter 199 members gather with W3BE in Ft. Meyers, FL. L to R, President Tad Burik, W3QC; Katie Bradfield, guest; W3BE; Gene Bradfield, KOTIW (seated); Bob Speck, W4MPJ; Jan Schuerman, WA2YL; Hugh Pulliam, W4SEM; Joy Speck, guest; Gene Baber, W8SZU.



Sun City Center Chapter 195 meeting in Apollo Beach, FL. L to R: Art Kunst, W3WM; Past-QCWA President Croft Taylor, VE3CT; Dee Turner, N4GD, SCM for the West Central Florida Section of ARRL; QCWA Secretary and Chapter Coordinator Alan Pickering, KJ9N; and W3BE.



Our QCWA Banner flies at the Orlando Hamcation. Former QCWA President, Gary Harrison, K0BC (foreground); W3BE; and Carolyn Harrison, WB0OUM.



SUMMER 2006

• MEMBER PINS

Over the years, all the costs associated with our member pins have increased; the basic cost, engraving and postage/handling to return the pin to the member. The price to our members has not changed since 1993, over 13 years! Beginning July 1, 2006, the price of our various pins will be as follows:

Standard Membership pin (no year tag)	\$15.00
Pin with year tag	\$20.00
Life Member Pin	\$8.00

Currently, the increased costs, over the member cost, come from our operating budget, which means fewer funds to support our normal Organization expenses. This adjustment should help cover any future increases for several years.

• ELECTION

By the time you receive this issue of the Journal, you will have received your ballot for the 2006 Officer/Board of Director election. The Spring issue contained the biography of each candidate. Note that for the Office of Secretary and Treasurer, there is only one candidate running for each office. It was directed by the BoD in 2004, that candidates running unopposed not be listed on the ballot. As indicated on the ballot, you will be voting for one (1) Presidential candidate, one (1) Vice-Presidential candidate, and eight (8) Directors. Remove your marked ballot portion (on the dotted lines), place first class postage (\$0.39 in the US) on the address side and mail to the pre-printed address on the ballot. The tellers must receive all ballots by midnight, July 31, 2006. The General Manager will phone each candidate with the results of the election. These results will be posted on the QCWA webpage by end-of-day, August 1, 2006.

• CHAPTER MEETINGS

Headquarters has received comments from several new members that often, they are left "stranded" when attending a meeting for the first time. We hams will divulge our life stories to someone over the air, but may well ignore the "new guy" when he comes to a meeting. What to do? The best way to handle this is to assign someone in your chapter to act as "greeter". They can welcome the new member, possibly inquire about their non-ham interests and make sure they are seated next to someone who shares those interests. Our goal is to integrate the new member into our chapter membership as seamlessly as possible. It really does work!!

• ATTENTION: CHAPTERS WITHOUT BANNERS!

Headquarters can now provide you with your very own! No change in size (approx. 4 ft x 2.5 ft) but created with a new technique that prints the logo and chapter information directly onto the banner background. Whenever the banner is displayed, it's a great advertisement for QCWA! Contact Headquarters for price and delivery information.

• DAYTON

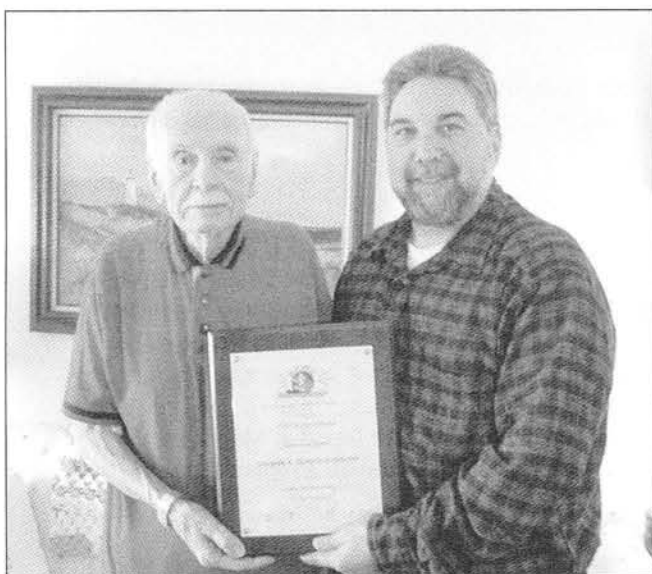
As always, meeting all the QCWA members who attended the Dayton Hamfest and stopped by the booth, was the highlight of the event for your office staff; myself and my XYL, Jan. After talking on the phone or reading your e-mails, meeting you "in person" made for an enjoyable day. Photos of the event with a report of our activities will be in the Fall issue. See you next year!!

73, Chuck Walbridge, K1IGD
General Manager

Congratulations! The 75-Year Awards

The 75-Year Award Recipients for 2006!

John Thompson	W1BIH	Victor Wooding	W9JNH	J. Gordan MacPhail	VE3IH
John Savonis	W1DBS	Wayne W. Cooper	AG4R	Ruby LaRue	W7JZA
Thomas Guadiana	W1DCM	Henry E. Schurman	W3DJE	Herbert J. Gleed, Jr.	W6FQ
Frank S. Obenauf	W2IAJ	Charles H. Davison	K2DOV	William Hope	W2EWT
Walter R. Farley	K4QE	Clint Bowman	W9GLW	Nick J. Laub	W0CA
Ted Clifton	W9TC	J. Gregg Stephenson	W1DGC	Edward E. W. Martinson	W0GYH
Alden M. Cooper	W8BHL	William P. Sides	W4AUP	Raymond Friesz	W0HRG
Robert F. Bowker	K6QT	Dwight I. Temple	W2ATM	George Clark	W5JKK
Seymour Denby	W2BNW	John Harvey Chase	W4TG	Alex Polityka	W8FLA
Randall O. Dicus	W7ADE	Don Devendorf	W8EGI		
Hugh E. Turner	W6BQY	Ralph McFadden	W0OMJ		



Left: Dwight Temple, W2ATM along with W2IX.



Harvey Chase, W4TG receiving his 75-Year Award.



Tom Guadiana, W1DCM with his 75-Year Award with Rich McNahan, K1FPP.

Thomas Guadiana, W1DCM Receives His 75-Year Award

On February 14, 2006, Valentine's Day, at an Underwater Sound Laboratory (USL) luncheon, Tom Guadiana, W1DCM (Dogs, Cats, & Mice) was presented with his 75-year Quarter Century Wireless Association (QCWA) Award. Along with this Award he received an honorary Life Membership to the National QCWA. I was given the honor of presenting Tom with this Award. I first met Tom 42 years ago, when I was a Sailor aboard the USS Sailfish SS572. He ran many phone patches for us while operating USL Amateur Radio Station W1RQU. While in conversation with Tom, he told me that he started off in Amateur Radio operating a spark gap transmitter made from a Model "T" ignition coil with the FCC call of 1DCM. Tom is a young 93-year-old very active Amateur Operator that participates in many HF nets including QCWA Nutmeg Chapter Net, USL Net, 4 PMer's Net, East Cars, and a 2-meter VHF evening net. If you hear him be sure to say hello. Tom always has a very famous and original expression: "If you see someone without a smile, give them yours".

Rich Monahan, K1FPP

Field Day, 1940, California Style

By Chet Smith, K1CCL

In ancient times in late Spring, after the crops had been planted, it was the time of year when kings went to war. It is also the time of the year when even more enlightened and civilized groups would turn primitive and would go out upon the hills and meadows and conduct Field Day trials. In June of 1940, the Palomar Amateur Radio Club, at the urging of the Club President, Lou Cartwright, W6BKZ, decided to set up shop on top of a knoll behind La Jolla, California. Said knoll, aka Mt. Soledad, was not yet infested with multi-million dollar baronial castles squeezed onto micro-sized "ranchettes" [translation, little-dinky house lots]. But in those days it was mostly scrubby brush; a happy home for rabbits, rattlesnakes and other creatures more respectable than those found there today. It was accessed by a somewhat rutted dirt road which looped around and came up the back. The view of the beach and the ocean from the hilltop was magnificent.

At the time, there were three classes of amateur licenses, under the totally unimaginative designations of "A, B & C". There was only one type of code test, 13 wpm. The bands were more or less harmonically related on the theory that a harmonic on 40 meters would land in the 20 meter band and not annoy some commercial service. Classes B and C were identical in privileges. The difference being that Class C examinations were taken before a volunteer examiner who was not part of the FCC. Usually this was a communications officer in the military or some other branch of the government. When a Class C holder moved within a certain distance or a place where the FCC held exams at least quarterly, said holder was required to appear and if passed, became Class B. The difference between Class A and B was that Class B had phone privileges on 160 and 10 meters whereas Class A had phone on 80 meters [closer to 75] and 20, by virtue of having passed a special exam on modulation theory. All classes had CW privileges on all bands. VHF was virgin territory, inhabited by some hardy pioneers like Roy Williamson, W6NXX. For purposes of scoring Field Day, each sub-band was considered a separate domain. For example 160 [1750 to 2000 kHz] was two bands, one for phone and the other for CW. 40 meters was only one band since no phone was allowed on it at that time. For Field Day purposes the club had a station active on each CW and phone band from 160 meters to 2 1/2, including 5 meters*.

Since there would be at least two high school age participants, the Club President laid down some rules. No Booze!! I [Chet] did not have a license at that time, but was allowed to keep logs.

The other under age person was "Charley", W6SSR, who had a penchant for lemon soda pop. He worked 40 meters at least some of the time.

There was a 2-1/2 kW motor-generator set that had been somehow dragged up the rutted rabbit trail to the top. A couple of guys fussed with it and finally got it going in time for tune-ups before the contest formally began. It performed wonderfully well supplying power for the stations and enough left over for a few 40-watt bulbs.

Most of the antennas were simple dipoles except for the two abominations on 160 meters. One group, the CW gang, favored what they thought was a Beverage long-wire. It set out along a row of posts across the brush in a more or less North by North-West direction. Actually, it ran over the edge and down into a canyon and part way up the other side. The 160-meter phone people had another idea. They had promoted some weather balloons which they inflated with helium [at least I hope it was helium]. The array of balloons lifted their 160-meter vertical nicely—at first. Days can be warm to downright hot in Southern California and unbelievably cold at night. Near the Ocean there is an added problem of cold moist sea air.

During the night hours I noticed some talking and scrambling about, but paid not a whole lot of attention to it as I was helping Roy, W6NXX, with his 2-1/2 meter activity. What had happened during the night was that the gas in the balloons had cooled and lost lift. What the scrambling was all about was the 160-meter phone gang running around scrounging posts and poles to prop up their sagging "vertical monopole". By sunrise we now had not one, but two Beverage antennas running down opposite sides of Mount Soledad.

Art Stewart, W6BOS, was operating the 20-meter phone band for a couple of reasons. (1) It was his rig and (2) he was well known for 20-meter phone DX. Among his other accomplishments, he provided regular contacts with China for a Moravian missionary nurse and her family in Escondido. However, Art was very fond of Blackberry Brandy, which he usually got from somewhere in Mexico. He was also familiar with the day/night temperature shift in that part of the world and he had smuggled some of his favorite anti-freeze along. It was along about 10:00 to 10:30 PM that Lou, W6BKZ, was making the rounds to see how everyone was doing that he heard Art calling, "This ish double-you sicsh bee kay zed ...on mount Solenoid, La Hoeyah...Khaleefomyah...SeeKew Feeld Day..." Lou promptly relieved him and sent him to bed to sleep it off.

Roy, W6NXX, had the set up on 2-1/2-meters. He had a two-horned affair, the heart of which was an RK-34 tube working into a set of Lecher lines. He had coupled off of this thing with a loop to a dipole and reflecting plate combination, which he hoped gave him some gain. Actually, the arrangement worked quite well, although at the time research into VHF was just getting a good start. [A lot of good work was done during the war, however, classified.] During the early afternoon on Sunday, California favored us with a coastal temperature inversion. Roy managed to contact another 2-1/2-meter station near Santa Barbara and for a while shared the DX record for that band. It did not last long as there was another 2-1/2-meter operation from Point Loma on Coronado about ten to twenty miles farther south.

The Palomar Radio Club is still in business in Poway [I think]. Most of the characters active then have long since joined the ranks of the SKs. The call, W6SSR, was listed in the late 1990s as belonging to a Charles Buckner at an address in San Francisco. I wrote to him, but received no reply. If he was the same person who took part in that Field Day on the hilltop behind La Jolla, he would have been well into his eighties, like me. A lot of us WW II veterans will be joining the list of SKs soon.

* At the time I had bootleg 5-meter station. It was built around a type 27 tube which had the base removed and the tank circuits soldered directly to the grid and plate wires where they came through the glass.

Chapter 119 & The Virginia Air and Space Center

by Jim Wise, W4PRO

In Hampton Virginia, home of America's space program, QCWA Chapter 119 is a charter member of a consortium of Amateur Radio clubs that have created a unique setting for demonstrating the versatility of Amateur Radio to thousands of visitors, mostly school children, every year.

Satellite Station KE4ZXW has been in continuous autonomous operation for ten years at the Virginia Air & Space Center. Ten local radio clubs, including QCWA Chapter 119, have pooled vast amounts of engineering talent and experience from NASA's Langley Research Center, area military installations and industrial corporations to create this state of the art facility. The VASC is a world-class air and space museum housing artifacts and other equipment dating from the Wright Brothers to the International Space Station. An IMAX theater is an integral part of the complex.

What started as a mere demonstration of Amateur Radio at the opening of the VASC in 1992 has become a multi-faceted interactive showcase that is manned by a volunteer ham at all times the center is open to visitors. All of the several hams who maintain the station and conduct hands-on demonstrations are fully certified as docents of the center. QCWA member, Wally Carter, K4OGT, has been recognized by the center for his untiring efforts to update equipment and software to accommodate continuous changes necessitated by the launching of more advanced amateur satellites. To date, Wally has accumulated almost 7000 hours of service to the center, establishing him as the perennial Docent of the Year.

Although the station is highly automated, thus providing interactive aural and visual displays to all visitors, the most exciting aspect of its operation is in hosting groups of students participating in real-time voice communications with astronauts while they are in orbit. The first was in 1996 with American astronaut John Blaha while he was aboard Russian Space Station MIR. Another was an eight-minute Q&A in 2001 between students of Armstrong Elementary School in Hampton and Commander Bill

Shepherd as the International Space Station's orbit carried it over Southeastern Virginia.

The station is in operation 24/7 and, at most times, is completely automated using two PC's and several software programs including InstantTrack, SatSked, OrbitDvr, and SatLink. The computers generate azimuth and elevation data for the HyGain crossed yagis (one for 2 meters and one for 70 cm), and frequency control data for the FT-736 transceiver to correct for Doppler shift. Both antennas are

turned by a Yaesu 5500 dual axis rotator.

Another pair of computers generate graphic displays showing the position of a selected satellite and slide shows of previously downloaded images.

Mode J satellites in polar orbits, working in a "store and forward" manner, broadcast data to and from amateur earth stations around the globe. These satellites are at an altitude of about 500 miles and pass over the station location six or more times each day.

They function as digital space-borne mailboxes

enabling hams around the world to discuss equipment, antennas, computer programs and personal information, and to send and receive images of their stations and local scenery, etc.

In addition to satellite communications, KE4ZXW has a well-equipped HF station and an antique radio display case containing donated Amateur Radio related items dating from the early spark days to the present. Station operators monitor local repeaters on a separate VHF/UHF transceiver to invite hams in the local area to contact them on 146.73 or 444.55 mhz and drop in for a visit.

Funding for the Amateur Radio Group comes from equipment manufacturers and local Amateur Radio clubs, with a sizeable initial donation from Tidewater Radio Conventions, Inc., the sponsor of the Virginia Beach Hamfest. The Center receives support from the NASA Langley Research Center in Hampton and the schools who use the facility.

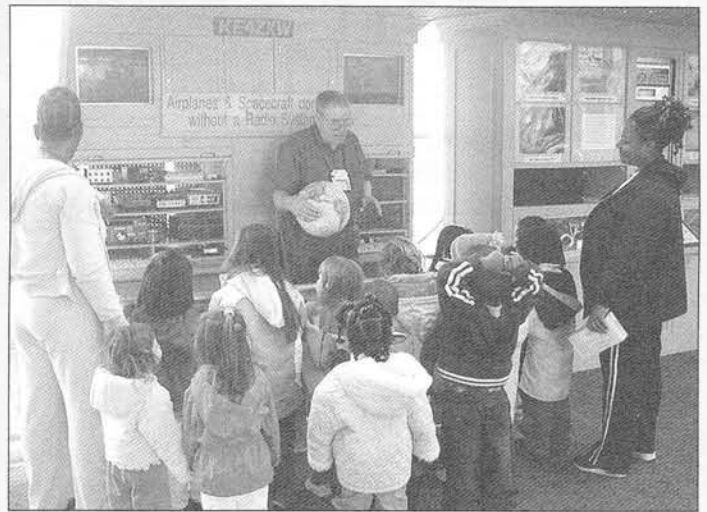
Participating schools learn of the programs offered by



Wally Carter, K4OGT



Do you see anything you like? Vintage radios from the exhibit.



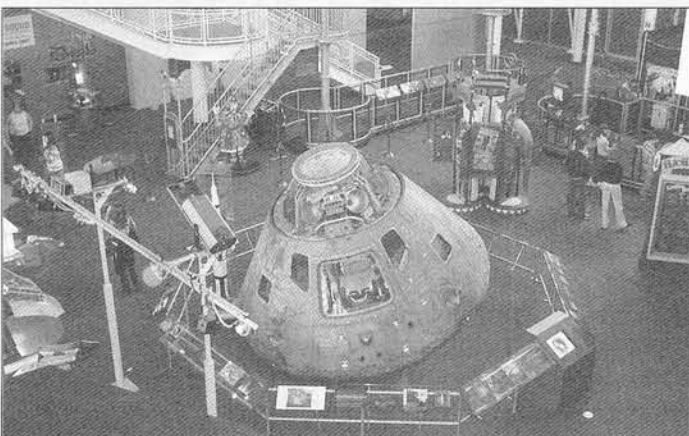
Wally Carter provides information to some interested school children.



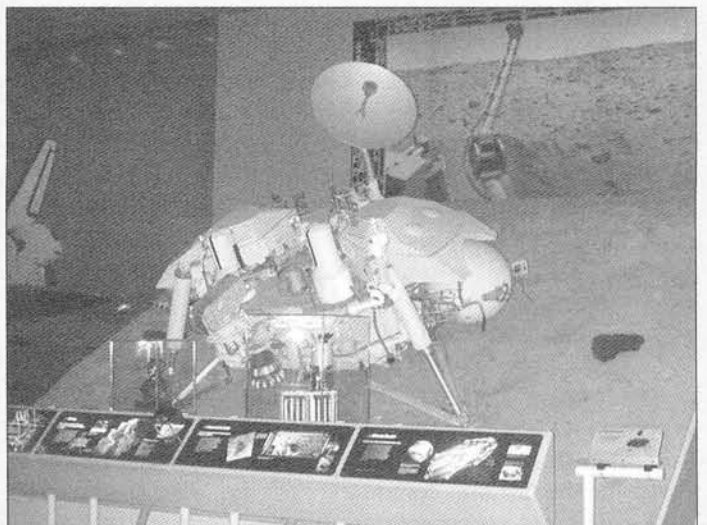
Vertical Takeoff Aircraft.



B-24 Ploesti Raid Simulator.



The Apollo Spacecraft.



Viking Lander exhibit.

the center through descriptions distributed throughout Virginia and neighboring states. Interested schools then either choose to enter into long-term contracts with the center or to schedule class visits on an a-la-cart basis.

KE4ZXW has completed ten years of continuous operation and is still going strong. For additional information look at www.seva.net/vascarg. ■



The Rules Say... Q&A

John B. Johnston, W3BE, 17701 Bowie Mill Road, Derwood, MD 20855-1608

Off To The RACES!

Our RACES (radio amateur civil emergency service) rules are based upon considerations with which our regulators have to satisfy. Section 97.3(a)(37) defines RACES as a radio service using amateur stations for civil defense communications during periods of local, regional or national civil emergencies. On January 17, 1951, an FCC public notice announced which segments of our allocated amateur service frequency bands would continue to be available for us to provide civil defense communications after suspension of normal amateur service activity. The notice disclosed that these frequency segments were selected for retention based upon factors such as the frequency requirements of other radio services in time of war or national emergency.

On December 19, 1952, the FCC released its proposals for the new RACES service, the licensing and operation of which were to be based upon organized networks under the direction of community or area civil defense authorities. Sub-bands for this new service were designated within our 160, 80, 75, 10, 6, 2 and 1.25 meter bands. The final rules were released on June 30, 1952.

Evidently, there was in existence an overall frequency allocation plan to be implemented in the event of an emergency that necessitates the invoking of the President's War Emergency Powers under the provisions of Section 706 of the Communications Act of 1934, as amended, 47 U.S.C. 606.

Over the years, the responsibility for administering the RACES - in case normal amateur service activity is again suspended - has shifted from the Department of Defense to the Federal Emergency Management Agency, now a component of the Department of Homeland Security. The rules for RACES have also evolved and now reside in Section 97.407. The frequency bands allocated to RACES, nevertheless, are remarkably similar to those announced over 55 years ago.

WT DOCKET NO. 04-140

Fast forward to March 31, 2004. In the Notice of Proposed Rule Making and Order in WT Docket No. 04-140, at paragraphs 89 and 90, the FCC notes that procedures for the use and coordination of the radio spectrum during wartime and other national emergencies are specified in Parts 201 and 214 of its Rules. These procedures specify that, during certain periods of wartime emergency, the Director of the Office of Science and Technology Policy

(OSTP) will serve as the central authority over our Nation's telecommunications facilities, systems and services, and will authorize, modify or revoke the continuance of all frequency authorizations issued by the FCC. Additionally, these procedures authorize the Director, OSTP, to issue policy guidance, rules, regulations, procedures, and directives to assure effective frequency usage during wartime emergency conditions.

The Notice goes on to note that Section 97.407(b) of our rules authorize RACES stations and amateur stations participating in RACES to transmit on certain specified frequency segments during periods of wartime emergency. This section does not indicate, however, that such authorization is subject to other rules that are in place for the use and coordination of the radio spectrum during such emergencies.

The Notice requested comments on its belief that specifying frequency segments on which RACES and amateur stations participating in RACES may transmit under our Part 97 is unnecessary in light of the rules in Parts 201 and 214. In this regard, it states that the Director, OSTP, has the authority to specify which, if any, frequency segments upon which RACES stations and other amateur stations may transmit.

The Notice proposes to amend Section 97.407(b) to delete the frequency bands and segments specified therein and to clarify that, during certain emergencies, the frequency segments available to RACES stations and amateur stations would be authorized pursuant to Part 214.

WORLD WAR II WERS

Rewind to December 1952: The original emergency frequency reallocation plan that included RACES most likely also took into consideration certain valuable lessons learned during World War II - the first of which is that there should be at hand a realistic plan to implement rapidly. Apparently, that was not the way it was on December 8, 1941, when FCC Order 87 directed amateur operators to immediately suspend all amateur operation in the continental U.S. its territories and possessions. Under that Order, amateur station transmissions were prohibited during the next 44 months.

It wasn't until six months after hostilities began that the FCC released rules for a new temporary Wartime Emergency Radio Service (WERS) using certain VHF and UHF amateur service frequency bands above 112 MHz.

Developed at the request of the Office of Civilian Defense, it provided for "competent" persons, after very tight security screening, to become operators in the WERS.

Amateur operators were seen as one – but not the only – source of candidates. It must have been quite a spell, moreover, before VHF – let alone UHF – equipment became widely available. Such was then at the very cutting edge of radio technology. Reliance must have been on home-brewing with parts on hand.

On August 21, 1945, the hostilities having concluded, FCC Order 127 authorized the first amateur service operation in almost four years: Hams could share the 112-115.5 MHz band with the WERS. It also announced the cancellation of the WERS as of November 15, 1945.

The opening of parts of our 10-meter band – also on November 15, 1945, as the result of FCC Order 130 – was greeted with great enthusiasm by hams and hams-to-be looking eagerly toward the post-War era. At long last, they could apply the technology developed during the War and use the operating skills they had acquired in the military. For the next decade, highly affordable War surplus electronic components and devices became available: transmitters, receivers, dynamotors, piece-parts, etc. All was just peachy-keen, until broadcast television took hold of our Nation's attention and our amateur service community had to learn to cope with TVI.

Q. I know it's against the rules to use a Ham Station for advertising commercial products, but I'm a slow-scan TV buff and would like to scan in some old ads out of ham magazines that I think are cool and transmit them as pictures. The companies are long defunct. If I send these on SSTV, do I have a problem?

A. Copyright issues aside, there is no FCC rule that says an amateur station cannot transmit SSTV of ads from defunct companies, per se. Give it the Section 97.113 "Prohibited transmissions test."

Section 97.113, says, in effect, that no station licensee should cause or allow the station to be used for any communications unless "No" can be answered truthfully and completely to each and every one of the following questions:

1. Is this communication specifically prohibited in Part 97 of the FCC rules?
2. Is this communication for hire?
3. Is this communication for direct material compensation?
4. Is this communication for indirect material compensation?
5. Is this communication for paid material compensation?
6. Is this communication for promised material compensation?
7. Does the station licensee have a pecuniary interest in this communication?
8. Does the control operator have a pecuniary interest in this communication?
9. Is this communication on behalf of the station licensee's

employer?

10. Is this communication on behalf of the control operator's employer?

11. Can this communication be reasonably furnished alternatively through another radio service?

Q. What kind of messages may my station transmit for a third party?

A. Just about anything, except those specific amateur station communications prohibited by Section 97.113(a):

- (1) Communications specifically prohibited elsewhere in FCC Part 97;
- (2) Communications for hire or for material compensation, direct or indirect, paid or promised, except as otherwise provided in these rules;
- (3) Communications in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer. Amateur operators may, however, notify other amateur operators of the availability for sale or trade of apparatus normally used in an amateur station, provided that such activity is not conducted on a regular basis;
- (4) Music using a phone emission except as specifically provided elsewhere in this section; communications intended to facilitate a criminal act; messages in codes or ciphers intended to obscure the meaning thereof, except as otherwise provided herein; obscene or indecent words or language; or false or deceptive messages, signals or identification;
- (5) Communications, on a regular basis, which could reasonably be furnished alternatively through other radio services.

With respect to line item 1, Section 97.115(a)(2) says, in pertinent part, that no station shall transmit messages for a third party to any station within the jurisdiction of any foreign government whose administration has not made such an arrangement. This prohibition does not apply to a message for any third party who is eligible to be a control operator of the station.

Section 97.117, moreover, says that transmissions to a different country, where permitted, shall be made in plain language and shall be limited to messages of a technical nature relating to tests, and, to remarks of a personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified.

Q. I know several people who have a Technician license that cannot even tell the difference between a capacitor and a resistor. They are amateur radio operators only because they have a ticket that says so. A real ham on the other hand is someone who not only has a ticket but also respects the culture and tradition of ham radio. (Comment?)

A. Naturally. Although Section 97.3(a)(1) defines an "amateur operator" as a person named in an amateur opera-

tor/primary license grant on the ULS consolidated licensee database to be the control operator of an amateur station, there is more to it, as you say. Section 97.3(a)(4) says that amateurs are duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

W3BE-O-GRAM: Now, about that capacitor/resistor standard: Those things are much smaller and much, much harder to even tell apart than they used to be.

Q. Thanks for sticking up for those of us who lost privileges when the Extra Class came along. I passed my Class B in 1946 and two years later passed my Class A, the full-privilege license of that era. Later, I was grandfathered to Advanced Class and lost privileges. How was that fair?

A. It was not in the least bit fair.

W3BE-O-GRAM: The taking of privileges away from those hams who have qualified for them is about as unfair as is the granting of privileges to hams who have not qualified for them.

Q. The repeater that our club used went off the air. No one seems to want to take on the job of restoring it. Can we use its output channel simplex until someone puts it back on the air? We would, of course, cease our temporary simplex use should it be reactivated.

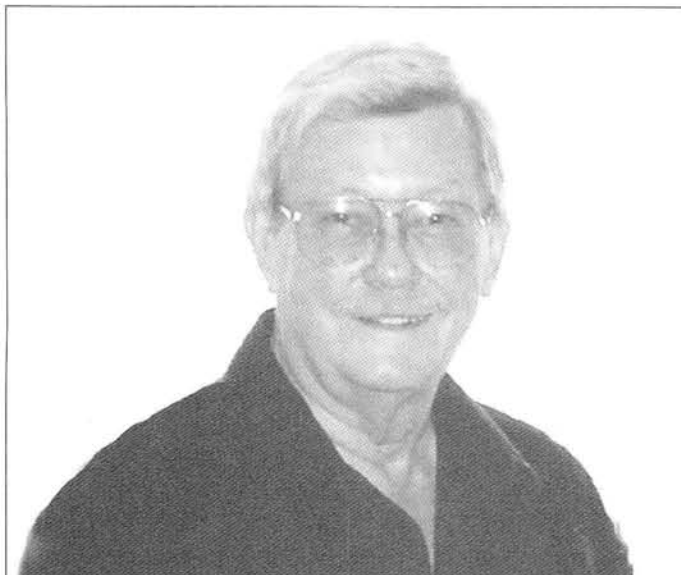
A. Yes, you can. Section 97.205(b) authorizes a repeater station to receive and transmit on certain bands. But, it does not limit those bands to just repeaters.

W3BE-O-GRAM: Your cooperative attitude is a credit to our amateur service. Keep up the good work.

APPRECIATION

Our R&R Superham-of-the-Month is our Director Edward Williams Yoder, W3YMB. Ed is our Parliamentarian as well as the Chair of our very active Administration Standing Committee.

Thank you, Ed, for the great work that you and the Administration Standing Committee has done for our QCWA.



Superham-of-the-Month: Director Edward Williams Yoder, W3YMB

Send your questions by e-mail to john@johnston.net.

QCWA STANDING COMMITTEE ORGANIZATION

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Addresses for Chairpersons can be found at the listing for QCWA Officers and Directors. A complete listing of all committee members is available at the QCWA website, www.qcwa.org.

Off To Alaska!

(with QCWA members)

by Carol Cutchall, Sr., WA4GFW and Leila Cutchall, WN4PP

On Tuesday, August 16, 2005, Carol, WA4GFW, and Leila, WN4PP, left Dulles Airport for the Quarter Century Wireless Association (QCWA) sponsored Alaskan tour and cruise. It was a dream come true. After a long 21 hour trip (plane delays) we arrived at last in Fairbanks and were met by our tour guide.

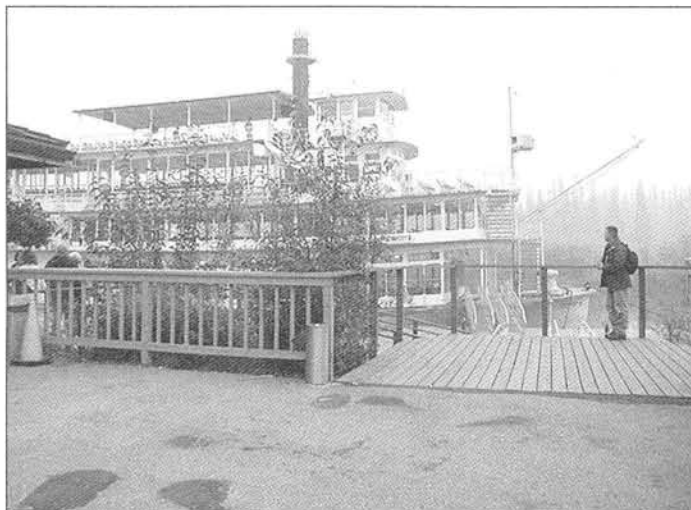
The fun began early next morning when we went on a bus tour of Fairbanks and then by paddle boat to Chena Indian Village on the Yukon River. We saw several caribou on a river bank and beautiful scenery all around. This was somewhat diminished by smoke from wild fires that were burning hundreds of miles away, but still had a special allure.



Secretary International QCWA Alan Pickering, WJ9N (Center)

Paddle Wheel Boat

The village was very interesting. There were demonstrations of the way the Indians lived and of the work they did to survive the winters. Furs were used for warmth, and there were women sewing and beading clothes made of leather. One Indian woman there had a piece she made and it was commissioned by the Smithsonian. It is now on display there. They

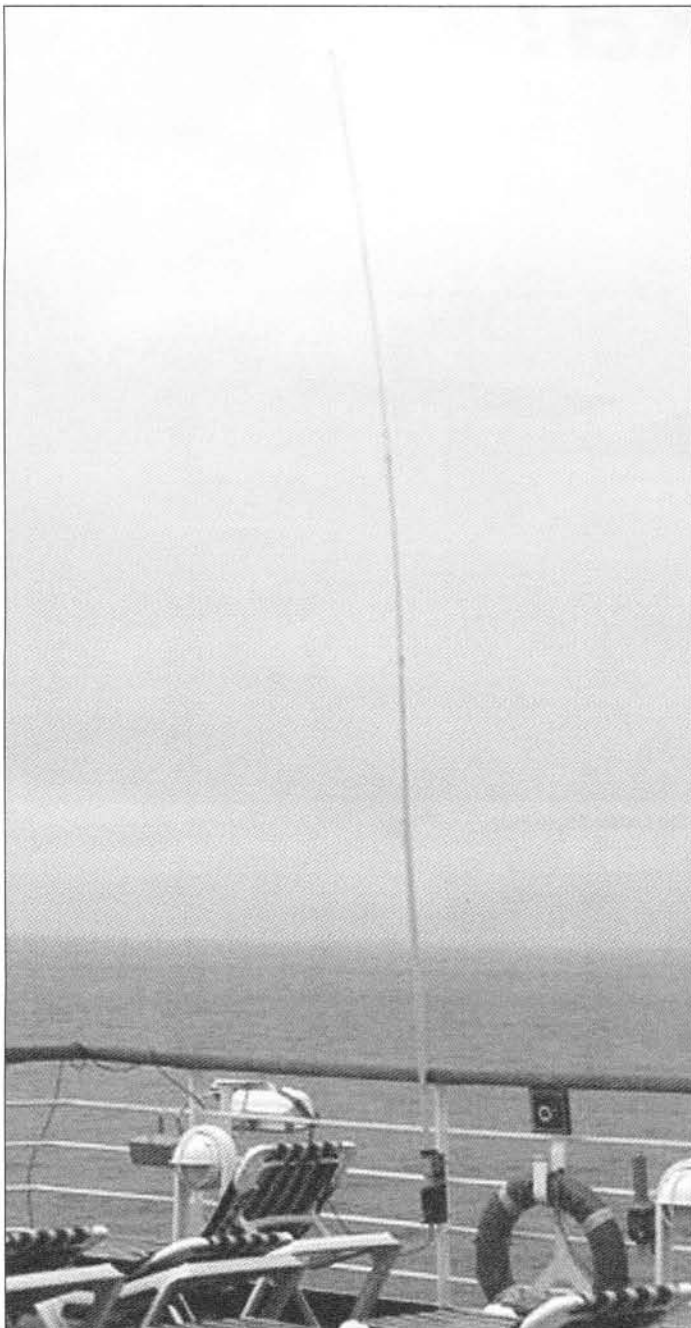


The Paddle Wheel Boat

"We saw several caribou on a river bank and beautiful scenery all around. This was somewhat diminished by smoke from wild fires that were burning hundreds of miles away, but still had a special allure"

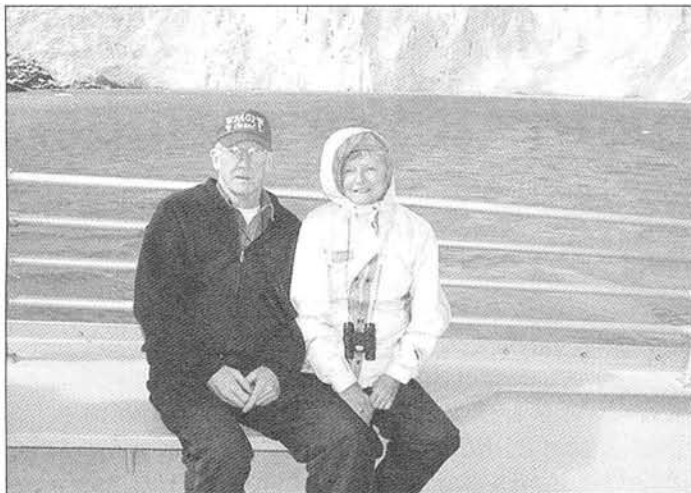
lived in small log cabins to more efficiently preserve the wood stove heat and had made structures built on stilts to help keep their food from wild animals. We also saw dogs bred for dog sledding that were being raised by a woman who has been in several Iditarod dog sled races. They were happy dogs and obviously loved her. On the way out we stopped by the Trans-Alaska Pipeline. That too, was very interesting.

In the afternoon we visited Gold Dredge Number 8, but first of all, we were treated to an "all you can eat" miner's lunch (all hams would love this). We then panned for gold. Carol and I together got about twelve dollars worth of gold and I spent ten for a locket to keep it in. Lots of fun!



Shipboard Vertical Antenna

The next morning we boarded the McKinley Explorer glass-domed train for Denali National Park. This eight-hour train ride provided us with glorious views all around. An eight-hour tundra wilderness tour in Denali National Park was on our Friday activity list. We then rode the train bound for Anchorage. A motor-coach was provided from Anchorage to Seward where we boarded Holland America's ms. Veendam for our cruise. It was here that all of the QCWA hams got together. There were about 150 of us and a good time was had by all. Good company, good food



Carol, WA4GFW, and Leila, WN4PP.



The ICOM IC7800. Bet you wish you had one of these!

and spectacular scenery, including glaciers. Spotted on the trip were whales, otters, birds, bear, moose, caribou, deer, dall sheep, salmon swimming and jumping up stream and who knows what else that I can't recall.

MS Veendam

ICOM had an IC7800 on board for our use. It was located on an aft deck with a vertical antenna on the deck above. Cold and rainy weather didn't hamper radio operations very much, the radio was under cover and people operated regularly. Carol and I both made contacts and that was neat. One of our contacts was the USS Red Oak, a victory ship off of the coast of California. Thank you ICOM!

Sunday, August 28, 2005 we all had to say good-bye to our new ham friends and return home but the entire trip was awesome!



QCWA Journal

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2000E on 7035

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This month's cover: This month's cover shows the exterior of the **Virginia Air and Space Center**. The article by Jim Wise, W4PRO, and additional photos can be found starting on page 8. QCWA member Wally Carter, K4OGT has accumulated almost 7000 hours of service to the Center, establishing him as the perennial Docent of the Year.

DISCLAIMER: Opinions expressed by the authors of articles contributed to the Journal do not represent the official position of the Officers or Directors of the Quarter Century Wireless Association, Inc.

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1986 - 1989

Harry Dannels, W2HD

1989 - 1994

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1994 - 1996

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Jim Walsh, W7LVN (SK)

1991 - 2003

The QCWA Journal

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It is important that we pause annually to reflect upon just whom it is among us that we admire as our role models in helping to fulfill each of the five principles establishing the very basis and purpose for the type of amateur service our FCC expects us to provide in return for being allowed to use some highly valuable radio spectrum.

In our Winter Journal, the call went out for our Chapters to nominate QCWA members for our FCC Rules Section 97.1 Presidential Honor Awards for 2005. Our Chapters responded and, on March 29, 2006, our Chapter Relations Standing Committee Chair Harold Chase, W1EES, met with our General Manager, Chuck Walbridge, K1IGD, and me. After reviewing carefully the nominations received, the final selections were made. It is an honor to announce the recipients of our 2005 Presidential Honor Awards.

Section 97.1(a). For service to the public as a voluntary noncommercial communication service, particularly with respect to providing emergency communications: **Quentin Jones, KU4WD.** Nominated by Citrus Chapter #45 for his work in Field Day Activities.

Section 97.1(b). For continuing and extending the amateur operator's proven ability to contribute to the advancement of the radio art: **Hans Napfel, WB2ZZB.** Nominated by W3BE for his informative presentations on various technical topics of interest to amateur operators.

Section 97.1(c). For advancing skills in both the communication and technical phases of the radio arts: **Gordon West, WB6NOA.** Nominated by W3BE for his work in encouraging amateur operators to advance their communication and technological skills.

Section 97.1(d). For expanding the existing reservoir within our amateur service of trained operators, technicians and electronic experts: **Larocca (Rocky) Jones, KC4UXO,** of Gaithersburg, MD, nominated by Baltimore Chapter #20 for her efforts in coordinating the amateur operator training program with the Montgomery County (MD) Amateur Radio Club.

Section 97.1(e). For continuing and extending the amateur operator's unique ability to enhance international goodwill: **Ray Johnson, K5RJ,** of Vienna, VA, nominated by Vic Clark Chapter #91 for his efforts in support of the DXCC program.

It is also a great pleasure to announce the recipients of additional Presidential Honors Awards for 2005.

Gerd Schrick, WB8IFM, for his work in arranging the 2005 Chapter #9 QCWA Banquet during the Dayton Hamvention.

George Roach, VE3BNO, for his work as our 2005 QCWA Activities Manager.

Roberta and Mort Cohen, WA2ARS, for their outstanding efforts in flying our QCWA banner at the 2005 Orlando Hamcation.

Charles Walbridge, K1IGD, nominated by Twin State Chapter 146 for his outstanding work in promoting cooperation and friendship among amateur operators who were first licensed at least 25 years ago.

Congratulations to all of our award recipients. Thanks for making amateur radio the greatest hobby in the World. Thanks also to everyone who submitted a nomination.

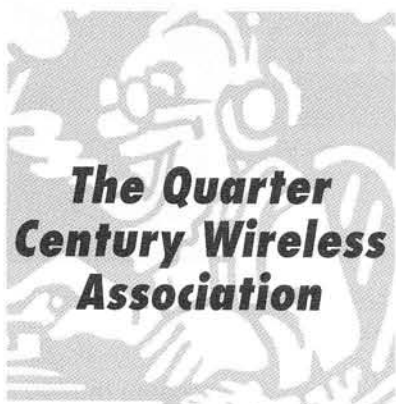
Recent visits included our Florida Citrus Chapter #45 (photo 1); Ft Meyers (FL) Edison Chapter #199 (photo 2); and Sun City Center (FL) Chapter #195 (photo 3.) Also, our QCWA Banner was flying proudly at numerous hamfests. These included the Ft Meyers Hamfest, the Orlando (FL) Hamcation (photo 4), the Northern Virginia Winterfest and the Greater Baltimore Hamboree and Computerfest.

Let's keep our banner flying!
DE W3BE



Citrus Chapter #45 officers witness Presidential Award recipient Bob Cumming, W2BZY, receiving congratulations from W3BE. L to R: Secretary Paul Turner, W1DLP; President Al LaPeter, W2AS; Treasurer Mort Cohen, WA2ARS; W2BZY and W3BE; Past-QCWA President Croft Taylor, VE3CT; and Vice-President Dave Flagg, N4BGH.

(photos continued on next page)



The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a noncommercial association of radio amateurs organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare.

QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986.

Its affairs are governed by a President, Vice President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership.

In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and must be currently licensed. Membership inquiries and general correspondence should be addressed to the business office at P.O. Box 3247, Framingham, MA 01705-3247 U.S.A. Telephone: 508-405-1930 FAX: 508-405-1965



Edison Chapter 199 members gather with W3BE in Ft. Meyers, FL. L to R, President Tad Burik, W3QC; Katie Bradfield, guest; W3BE; Gene Bradfield, KOTIW (seated); Bob Speck, W4MPJ; Jan Schuerman, WA2YL; Hugh Pulliam, W4SEM; Joy Speck, guest; Gene Baber, W8SZU.



Sun City Center Chapter 195 meeting in Apollo Beach, FL. L to R: Art Kunst, W3WM; Past-QCWA President Croft Taylor, VE3CT; Dee Turner, N4GD, SCM for the West Central Florida Section of ARRL; QCWA Secretary and Chapter Coordinator Alan Pickering, KJ9N; and W3BE.



Our QCWA Banner flies at the Orlando Hamcation. Former QCWA President, Gary Harrison, K0BC (foreground); W3BE; and Carolyn Harrison, WB00UM.



SUMMER 2006

• MEMBER PINS

Over the years, all the costs associated with our member pins have increased; the basic cost, engraving and postage/handling to return the pin to the member. The price to our members has not changed since 1993, over 13 years! Beginning July 1, 2006, the price of our various pins will be as follows:

Standard Membership pin (no year tag)	\$15.00
Pin with year tag	\$20.00
Life Member Pin	\$8.00

Currently, the increased costs, over the member cost, come from our operating budget, which means fewer funds to support our normal Organization expenses. This adjustment should help cover any future increases for several years.

• ELECTION

By the time you receive this issue of the Journal, you will have received your ballot for the 2006 Officer/Board of Director election. The Spring issue contained the biography of each candidate. Note that for the Office of Secretary and Treasurer, there is only one candidate running for each office. It was directed by the BoD in 2004, that candidates running unopposed not be listed on the ballot. As indicated on the ballot, you will be voting for one (1) Presidential candidate, one (1) Vice-Presidential candidate, and eight (8) Directors. Remove your marked ballot portion (on the dotted lines), place first class postage (\$0.39 in the US) on the address side and mail to the pre-printed address on the ballot. The tellers must receive all ballots by midnight, July 31, 2006. The General Manager will phone each candidate with the results of the election. These results will be posted on the QCWA webpage by end-of-day, August 1, 2006.

• CHAPTER MEETINGS

Headquarters has received comments from several new members that often, they are left "stranded" when attending a meeting for the first time. We hams will divulge our life stories to someone over the air, but may well ignore the "new guy" when he comes to a meeting. What to do? The best way to handle this is to assign someone in your chapter to act as "greeter". They can welcome the new member, possibly inquire about their non-ham interests and make sure they are seated next to someone who shares those interests. Our goal is to integrate the new member into our chapter membership as seamlessly as possible. It really does work!!

• ATTENTION: CHAPTERS WITHOUT BANNERS!

Headquarters can now provide you with your very own! No change in size (approx. 4 ft x 2.5 ft) but created with a new technique that prints the logo and chapter information directly onto the banner background. Whenever the banner is displayed, it's a great advertisement for QCWA! Contact Headquarters for price and delivery information.

• DAYTON

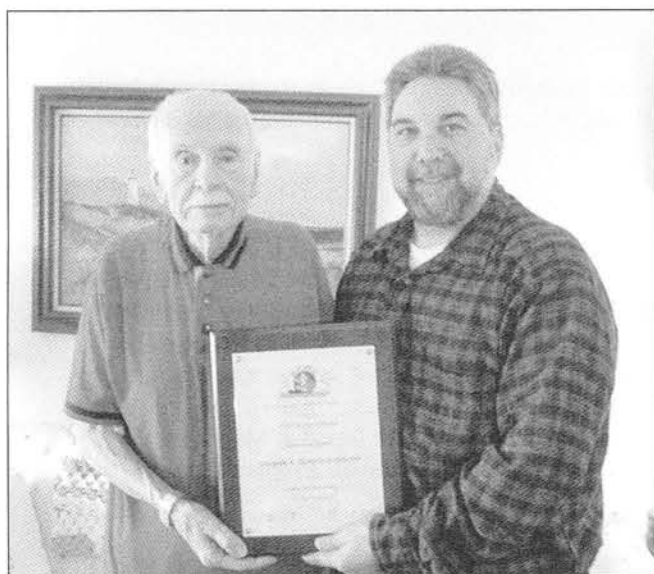
As always, meeting all the QCWA members who attended the Dayton Hamfest and stopped by the booth, was the highlight of the event for your office staff; myself and my XYL, Jan. After talking on the phone or reading your e-mails, meeting you "in person" made for an enjoyable day. Photos of the event with a report of our activities will be in the Fall issue. See you next year!!

73, Chuck Walbridge, K1IGD
General Manager

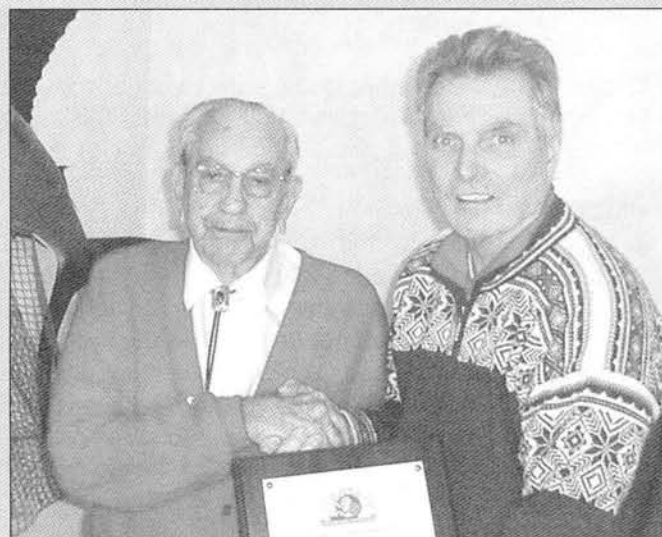
Congratulations! The 75-Year Awards

The 75-Year Award Recipients for 2006!

John Thompson	W1BIH	Victor Wooding	W9JNH	J. Gordan MacPhail	VE3IH
John Savonis	W1DBS	Wayne W. Cooper	AG4R	Ruby LaRue	W7JZA
Thomas Guadiana	W1DCM	Henry E. Schurman	W3DJE	Herbert J. Gleed, Jr.	W6FQ
Frank S. Obenauf	W2IAJ	Charles H. Davison	K2DOV	William Hope	W2EWT
Walter R. Farley	K4QE	Clint Bowman	W9GLW	Nick J. Laub	W0CA
Ted Clifton	W9TC	J. Gregg Stephenson	W1DGC	Edward E. W. Martinson	W0GYH
Alden M. Cooper	W8BHL	William P. Sides	W4AUP	Raymond Friesz	W0HRG
Robert F. Bowker	K6QT	Dwight I. Temple	W2ATM	George Clark	W5JKK
Seymour Denby	W2BNW	John Harvey Chase	W4TG	Alex Polityka	W8FLA
Randall O. Dicus	W7ADE	Don Devendorf	W8EGI		
Hugh E. Turner	W6BQY	Ralph McFadden	W0OMJ		



Left: Dwight Temple, W2ATM along with W2IX.



Tom Guadiana, W1DCM with his 75-Year Award with Rich McNahan, K1FPP.

Thomas Guadiana, W1DCM Receives His 75-Year Award

On February 14, 2006, Valentine's Day, at an Underwater Sound Laboratory (USL) luncheon, Tom Guadiana, W1DCM (Dogs, Cats, & Mice) was presented with his 75-year Quarter Century Wireless Association (QCWA) Award. Along with this Award he received an honorary Life Membership to the National QCWA. I was given the honor of presenting Tom with this Award. I first met Tom 42 years ago, when I was a Sailor aboard the USS Sailfish SS572. He ran many phone patches for us while operating USL Amateur Radio Station W1RQU. While in conversation with Tom, he told me that he started off in Amateur Radio operating a spark gap transmitter made from a Model "T" ignition coil with the FCC call of 1DCM. Tom is a young 93-year-old very active Amateur Operator that participates in many HF nets including QCWA Nutmeg Chapter Net, USL Net, 4 PMer's Net, East Cars, and a 2-meter VHF evening net. If you hear him be sure to say hello. Tom always has a very famous and original expression: "If you see someone without a smile, give them yours".

Rich Monahan, K1FPP



Harvey Chase, W4TG receiving his 75-Year Award.

Field Day, 1940, California Style

By Chet Smith, K1CCL

In ancient times in late Spring, after the crops had been planted, it was the time of year when kings went to war. It is also the time of the year when even more enlightened and civilized groups would turn primitive and would go out upon the hills and meadows and conduct Field Day trials. In June of 1940, the Palomar Amateur Radio Club, at the urging of the Club President, Lou Cartwright, W6BKZ, decided to set up shop on top of a knoll behind La Jolla, California. Said knoll, aka Mt. Soledad, was not yet infested with multi-million dollar baronial castles squeezed onto micro-sized "ranchettes" [translation, little-dinky house lots]. But in those days it was mostly scrubby brush; a happy home for rabbits, rattlesnakes and other creatures more respectable than those found there today. It was accessed by a somewhat rutted dirt road which looped around and came up the back. The view of the beach and the ocean from the hilltop was magnificent.

At the time, there were three classes of amateur licenses, under the totally unimaginative designations of "A, B & C". There was only one type of code test, 13 wpm. The bands were more or less harmonically related on the theory that a harmonic on 40 meters would land in the 20 meter band and not annoy some commercial service. Classes B and C were identical in privileges. The difference being that Class C examinations were taken before a volunteer examiner who was not part of the FCC. Usually this was a communications officer in the military or some other branch of the government. When a Class C holder moved within a certain distance or a place where the FCC held exams at least quarterly, said holder was required to appear and if passed, became Class B. The difference between Class A and B was that Class B had phone privileges on 160 and 10 meters whereas Class A had phone on 80 meters [closer to 75] and 20, by virtue of having passed a special exam on modulation theory. All classes had CW privileges on all bands. VHF was virgin territory, inhabited by some hardy pioneers like Roy Williamson, W6NXX. For purposes of scoring Field Day, each sub-band was considered a separate domain. For example 160 [1750 to 2000 kHz] was two bands, one for phone and the other for CW. 40 meters was only one band since no phone was allowed on it at that time. For Field Day purposes the club had a station active on each CW and phone band from 160 meters to 2 1/2, including 5 meters*.

Since there would be at least two high school age participants, the Club President laid down some rules. No Booze!! I [Chet] did not have a license at that time, but was allowed to keep logs.

The other under age person was "Charley", W6SSR, who had a penchant for lemon soda pop. He worked 40 meters at least some of the time,

There was a 2-1/2 kW motor-generator set that had been somehow dragged up the rutted rabbit trail to the top. A couple of guys fussed with it and finally got it going in time for tune-ups before the contest formally began. It performed wonderfully well supplying power for the stations and enough left over for a few 40-watt bulbs.

Most of the antennas were simple dipoles except for the two abominations on 160 meters. One group, the CW gang, favored what they thought was a Beverage long-wire. It set out along a row of posts across the brush in a more or less North by North-West direction. Actually, it ran over the edge and down into a canyon and part way up the other side. The 160-meter phone people had another idea. They had promoted some weather balloons which they inflated with helium [at least I hope it was helium]. The array of balloons lifted their 160-meter vertical nicely—at first. Days can be warm to downright hot in Southern California and unbelievably cold at night. Near the Ocean there is an added problem of cold moist sea air.

During the night hours I noticed some talking and scrambling about, but paid not a whole lot of attention to it as I was helping Roy, W6NXX, with his 2-1/2 meter activity. What had happened during the night was that the gas in the balloons had cooled and lost lift. What the scrambling was all about was the 160-meter phone gang running around scrounging posts and poles to prop up their sagging "vertical monopole". By sunrise we now had not one, but two Beverage antennas running down opposite sides of Mount Soledad.

Art Stewart, W6BOS, was operating the 20-meter phone band for a couple of reasons. (1) It was his rig and (2) he was well known for 20-meter phone DX. Among his other accomplishments, he provided regular contacts with China for a Moravian missionary nurse and her family in Escondido. However, Art was very fond of Blackberry Brandy, which he usually got from somewhere in Mexico. He was also familiar with the day/night temperature shift in that part of the world and he had smuggled some of his favorite anti-freeze along. It was along about 10:00 to 10:30 PM that Lou, W6BKZ, was making the rounds to see how everyone was doing that he heard Art calling, "This ish double-you sicsh bee kay zed ...on mount Solenoid, La Hoeyah...Khaleefomyah...SeeKew Feeld Day..." Lou promptly relieved him and sent him to bed to sleep it off.

Roy, W6NXX, had the set up on 2-1/2-meters. He had a two-horned affair, the heart of which was an RK-34 tube working into a set of Lecher lines. He had coupled off of this thing with a loop to a dipole and reflecting plate combination, which he hoped gave him some gain. Actually, the arrangement worked quite well, although at the time research into VHF was just getting a good start. [A lot of good work was done during the war, however, classified.] During the early afternoon on Sunday, California favored us with a coastal temperature inversion. Roy managed to contact another 2-1/2-meter station near Santa Barbara and for a while shared the DX record for that band. It did not last long as there was another 2-1/2-meter operation from Point Loma on Coronado about ten to twenty miles farther south.

The Palomar Radio Club is still in business in Poway [I think]. Most of the characters active then have long since joined the ranks of the SKs. The call, W6SSR, was listed in the late 1990s as belonging to a Charles Buckner at an address in San Francisco. I wrote to him, but received no reply. If he was the same person who took part in that Field Day on the hilltop behind La Jolla, he would have been well into his eighties, like me. A lot of us WW II veterans will be joining the list of SKs soon.

* At the time I had bootleg 5-meter station. It was built around a type 27 tube which had the base removed and the tank circuits soldered directly to the grid and plate wires where they came through the glass.

Chapter 119 & The Virginia Air and Space Center

by Jim Wise, W4PRO

In Hampton Virginia, home of America's space program, QCWA Chapter 119 is a charter member of a consortium of Amateur Radio clubs that have created a unique setting for demonstrating the versatility of Amateur Radio to thousands of visitors, mostly school children, every year.

Satellite Station KE4ZXW has been in continuous autonomous operation for ten years at the Virginia Air & Space Center. Ten local radio clubs, including QCWA Chapter 119, have pooled vast amounts of engineering talent and experience from NASA's Langley Research Center, area military installations and industrial corporations to create this state of the art facility. The VASC is a world-class air and space museum housing artifacts and other equipment dating from the Wright Brothers to the International Space Station. An IMAX theater is an integral part of the complex.

What started as a mere demonstration of Amateur Radio at the opening of the VASC in 1992 has become a multi-faceted interactive showcase that is manned by a volunteer ham at all times the center is open to visitors. All of the several hams who maintain the station and conduct hands-on demonstrations are fully certified as docents of the center. QCWA member, Wally Carter, K4OGT, has been recognized by the center for his untiring efforts to update equipment and software to accommodate continuous changes necessitated by the launching of more advanced amateur satellites. To date, Wally has accumulated almost 7000 hours of service to the center, establishing him as the perennial Docent of the Year.

Although the station is highly automated, thus providing interactive aural and visual displays to all visitors, the most exciting aspect of its operation is in hosting groups of students participating in real-time voice communications with astronauts while they are in orbit. The first was in 1996 with American astronaut John Blaha while he was aboard Russian Space Station MIR. Another was an eight-minute Q&A in 2001 between students of Armstrong Elementary School in Hampton and Commander Bill

Shepherd as the International Space Station's orbit carried it over Southeastern Virginia.

The station is in operation 24/7 and, at most times, is completely automated using two PC's and several software programs including InstantTrack, SatSked, OrbitDvr, and SatLink. The computers generate azimuth and elevation data for the HyGain crossed yagis (one for 2 meters and one for 70 cm), and frequency control data for the FT-736 transceiver to correct for Doppler shift. Both antennas are

turned by a Yaesu 5500 dual axis rotator.

Another pair of computers generate graphic displays showing the position of a selected satellite and slide shows of previously downloaded images.

Mode J satellites in polar orbits, working in a "store and forward" manner, broadcast data to and from amateur earth stations around the globe. These satellites are at an altitude of about 500 miles and pass over the station location six or more times each day.

They function as digital space-borne mailboxes

enabling hams around the world to discuss equipment, antennas, computer programs and personal information, and to send and receive images of their stations and local scenery, etc.

In addition to satellite communications, KE4ZXW has a well-equipped HF station and an antique radio display case containing donated Amateur Radio related items dating from the early spark days to the present. Station operators monitor local repeaters on a separate VHF/UHF transceiver to invite hams in the local area to contact them on 146.73 or 444.55 mhz and drop in for a visit.

Funding for the Amateur Radio Group comes from equipment manufacturers and local Amateur Radio clubs, with a sizeable initial donation from Tidewater Radio Conventions, Inc., the sponsor of the Virginia Beach Hamfest. The Center receives support from the NASA Langley Research Center in Hampton and the schools who use the facility.

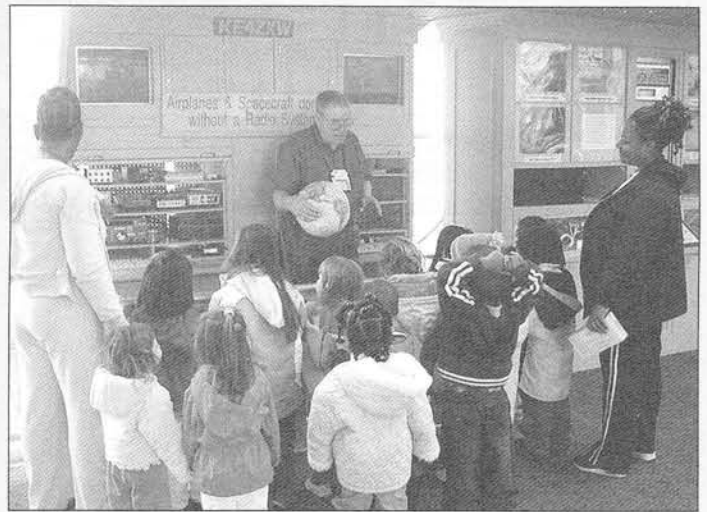
Participating schools learn of the programs offered by



Wally Carter, K4OGT



Do you see anything you like? Vintage radios from the exhibit.



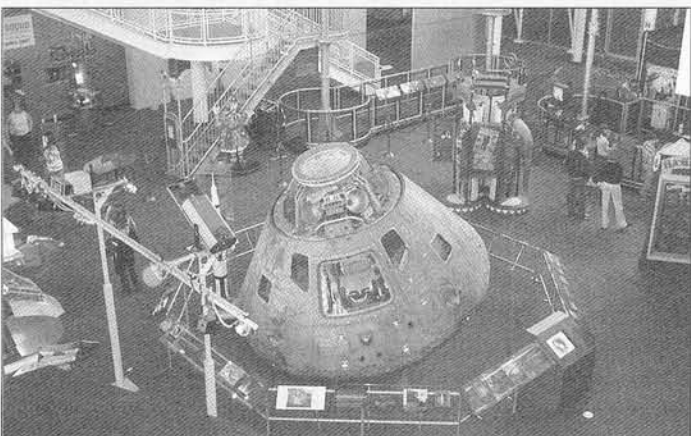
Wally Carter provides information to some interested school children.



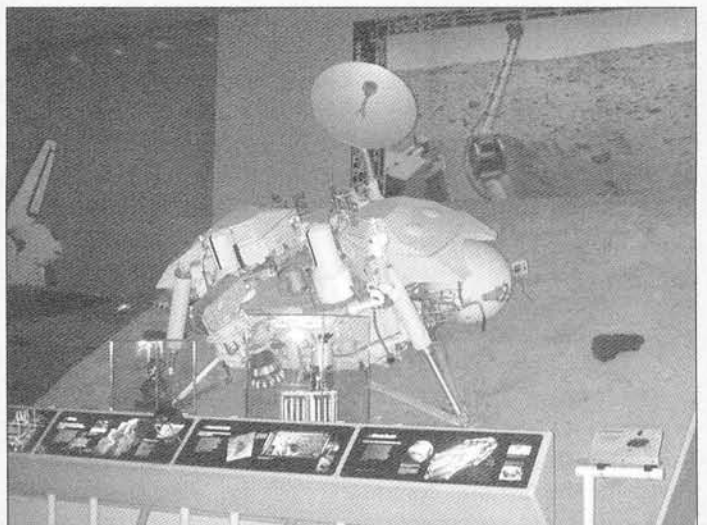
Vertical Takeoff Aircraft.



B-24 Ploesti Raid Simulator.



The Apollo Spacecraft.



Viking Lander exhibit.

the center through descriptions distributed throughout Virginia and neighboring states. Interested schools then either choose to enter into long-term contracts with the center or to schedule class visits on an a-la-cart basis.

KE4ZXW has completed ten years of continuous operation and is still going strong. For additional information look at www.seva.net/vascarg. ■



The Rules Say... Q&A

John B. Johnston, W3BE, 17701 Bowie Mill Road, Derwood, MD 20855-1608

Off To The RACES!

Our RACES (radio amateur civil emergency service) rules are based upon considerations with which our regulators have to satisfy. Section 97.3(a)(37) defines RACES as a radio service using amateur stations for civil defense communications during periods of local, regional or national civil emergencies. On January 17, 1951, an FCC public notice announced which segments of our allocated amateur service frequency bands would continue to be available for us to provide civil defense communications after suspension of normal amateur service activity. The notice disclosed that these frequency segments were selected for retention based upon factors such as the frequency requirements of other radio services in time of war or national emergency.

On December 19, 1952, the FCC released its proposals for the new RACES service, the licensing and operation of which were to be based upon organized networks under the direction of community or area civil defense authorities. Sub-bands for this new service were designated within our 160, 80, 75, 10, 6, 2 and 1.25 meter bands. The final rules were released on June 30, 1952.

Evidently, there was in existence an overall frequency allocation plan to be implemented in the event of an emergency that necessitates the invoking of the President's War Emergency Powers under the provisions of Section 706 of the Communications Act of 1934, as amended, 47 U.S.C. 606.

Over the years, the responsibility for administering the RACES - in case normal amateur service activity is again suspended - has shifted from the Department of Defense to the Federal Emergency Management Agency, now a component of the Department of Homeland Security. The rules for RACES have also evolved and now reside in Section 97.407. The frequency bands allocated to RACES, nevertheless, are remarkably similar to those announced over 55 years ago.

WT DOCKET NO. 04-140

Fast forward to March 31, 2004. In the Notice of Proposed Rule Making and Order in WT Docket No. 04-140, at paragraphs 89 and 90, the FCC notes that procedures for the use and coordination of the radio spectrum during wartime and other national emergencies are specified in Parts 201 and 214 of its Rules. These procedures specify that, during certain periods of wartime emergency, the Director of the Office of Science and Technology Policy

(OSTP) will serve as the central authority over our Nation's telecommunications facilities, systems and services, and will authorize, modify or revoke the continuance of all frequency authorizations issued by the FCC. Additionally, these procedures authorize the Director, OSTP, to issue policy guidance, rules, regulations, procedures, and directives to assure effective frequency usage during wartime emergency conditions.

The Notice goes on to note that Section 97.407(b) of our rules authorize RACES stations and amateur stations participating in RACES to transmit on certain specified frequency segments during periods of wartime emergency. This section does not indicate, however, that such authorization is subject to other rules that are in place for the use and coordination of the radio spectrum during such emergencies.

The Notice requested comments on its belief that specifying frequency segments on which RACES and amateur stations participating in RACES may transmit under our Part 97 is unnecessary in light of the rules in Parts 201 and 214. In this regard, it states that the Director, OSTP, has the authority to specify which, if any, frequency segments upon which RACES stations and other amateur stations may transmit.

The Notice proposes to amend Section 97.407(b) to delete the frequency bands and segments specified therein and to clarify that, during certain emergencies, the frequency segments available to RACES stations and amateur stations would be authorized pursuant to Part 214.

WORLD WAR II WERS

Rewind to December 1952: The original emergency frequency reallocation plan that included RACES most likely also took into consideration certain valuable lessons learned during World War II - the first of which is that there should be at hand a realistic plan to implement rapidly. Apparently, that was not the way it was on December 8, 1941, when FCC Order 87 directed amateur operators to immediately suspend all amateur operation in the continental U.S. its territories and possessions. Under that Order, amateur station transmissions were prohibited during the next 44 months.

It wasn't until six months after hostilities began that the FCC released rules for a new temporary Wartime Emergency Radio Service (WERS) using certain VHF and UHF amateur service frequency bands above 112 MHz.

Developed at the request of the Office of Civilian Defense, it provided for "competent" persons, after very tight security screening, to become operators in the WERS.

Amateur operators were seen as one – but not the only – source of candidates. It must have been quite a spell, moreover, before VHF – let alone UHF – equipment became widely available. Such was then at the very cutting edge of radio technology. Reliance must have been on home-brewing with parts on hand.

On August 21, 1945, the hostilities having concluded, FCC Order 127 authorized the first amateur service operation in almost four years: Hams could share the 112-115.5 MHz band with the WERS. It also announced the cancellation of the WERS as of November 15, 1945.

The opening of parts of our 10-meter band – also on November 15, 1945, as the result of FCC Order 130 – was greeted with great enthusiasm by hams and hams-to-be looking eagerly toward the post-War era. At long last, they could apply the technology developed during the War and use the operating skills they had acquired in the military. For the next decade, highly affordable War surplus electronic components and devices became available: transmitters, receivers, dynamotors, piece-parts, etc. All was just peachy-keen, until broadcast television took hold of our Nation's attention and our amateur service community had to learn to cope with TVI.

Q. I know it's against the rules to use a Ham Station for advertising commercial products, but I'm a slow-scan TV buff and would like to scan in some old ads out of ham magazines that I think are cool and transmit them as pictures. The companies are long defunct. If I send these on SSTV, do I have a problem?

A. Copyright issues aside, there is no FCC rule that says an amateur station cannot transmit SSTV of ads from defunct companies, per se. Give it the Section 97.113 "Prohibited transmissions test."

Section 97.113, says, in effect, that no station licensee should cause or allow the station to be used for any communications unless "No" can be answered truthfully and completely to each and every one of the following questions:

1. Is this communication specifically prohibited in Part 97 of the FCC rules?
2. Is this communication for hire?
3. Is this communication for direct material compensation?
4. Is this communication for indirect material compensation?
5. Is this communication for paid material compensation?
6. Is this communication for promised material compensation?
7. Does the station licensee have a pecuniary interest in this communication?
8. Does the control operator have a pecuniary interest in this communication?
9. Is this communication on behalf of the station licensee's

employer?

10. Is this communication on behalf of the control operator's employer?

11. Can this communication be reasonably furnished alternatively through another radio service?

Q. What kind of messages may my station transmit for a third party?

A. Just about anything, except those specific amateur station communications prohibited by Section 97.113(a):

- (1) Communications specifically prohibited elsewhere in FCC Part 97;
- (2) Communications for hire or for material compensation, direct or indirect, paid or promised, except as otherwise provided in these rules;
- (3) Communications in which the station licensee or control operator has a pecuniary interest, including communications on behalf of an employer. Amateur operators may, however, notify other amateur operators of the availability for sale or trade of apparatus normally used in an amateur station, provided that such activity is not conducted on a regular basis;
- (4) Music using a phone emission except as specifically provided elsewhere in this section; communications intended to facilitate a criminal act; messages in codes or ciphers intended to obscure the meaning thereof, except as otherwise provided herein; obscene or indecent words or language; or false or deceptive messages, signals or identification;
- (5) Communications, on a regular basis, which could reasonably be furnished alternatively through other radio services.

With respect to line item 1, Section 97.115(a)(2) says, in pertinent part, that no station shall transmit messages for a third party to any station within the jurisdiction of any foreign government whose administration has not made such an arrangement. This prohibition does not apply to a message for any third party who is eligible to be a control operator of the station.

Section 97.117, moreover, says that transmissions to a different country, where permitted, shall be made in plain language and shall be limited to messages of a technical nature relating to tests, and, to remarks of a personal character for which, by reason of their unimportance, recourse to the public telecommunications service is not justified.

Q. I know several people who have a Technician license that cannot even tell the difference between a capacitor and a resistor. They are amateur radio operators only because they have a ticket that says so. A real ham on the other hand is someone who not only has a ticket but also respects the culture and tradition of ham radio. (Comment?)

A. Naturally. Although Section 97.3(a)(1) defines an "amateur operator" as a person named in an amateur opera-

tor/primary license grant on the ULS consolidated licensee database to be the control operator of an amateur station, there is more to it, as you say. Section 97.3(a)(4) says that amateurs are duly authorized persons interested in radio technique solely with a personal aim and without pecuniary interest.

W3BE-O-GRAM: Now, about that capacitor/resistor standard: Those things are much smaller and much, much harder to even tell apart than they used to be.

Q. Thanks for sticking up for those of us who lost privileges when the Extra Class came along. I passed my Class B in 1946 and two years later passed my Class A, the full-privilege license of that era. Later, I was grandfathered to Advanced Class and lost privileges. How was that fair?

A. It was not in the least bit fair.

W3BE-O-GRAM: The taking of privileges away from those hams who have qualified for them is about as unfair as is the granting of privileges to hams who have not qualified for them.

Q. The repeater that our club used went off the air. No one seems to want to take on the job of restoring it. Can we use its output channel simplex until someone puts it back on the air? We would, of course, cease our temporary simplex use should it be reactivated.

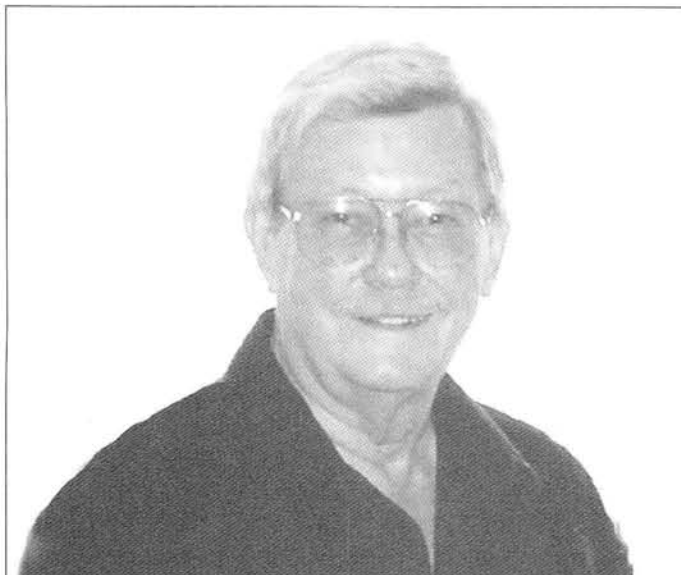
A. Yes, you can. Section 97.205(b) authorizes a repeater station to receive and transmit on certain bands. But, it does not limit those bands to just repeaters.

W3BE-O-GRAM: Your cooperative attitude is a credit to our amateur service. Keep up the good work.

APPRECIATION

Our R&R Superham-of-the-Month is our Director Edward Williams Yoder, W3YMB. Ed is our Parliamentarian as well as the Chair of our very active Administration Standing Committee.

Thank you, Ed, for the great work that you and the Administration Standing Committee has done for our QCWA.



Superham-of-the-Month: Director Edward Williams Yoder, W3YMB

Send your questions by e-mail to john@johnston.net.

QCWA STANDING COMMITTEE ORGANIZATION

COMMITTEE

CHAIRPERSON

ADMINISTRATION:	ED YODER, W3YMB
CHAPTER RELATIONS:	HAROLD CHASE, W1EES
EXTERNAL RELATIONS:	LEN NATHANSON, W8RC
FINANCIAL:	LEW GORDON, K4VX
PUBLICATIONS:	BOB ROSKE, N0UF

Addresses for Chairpersons can be found at the listing for QCWA Officers and Directors. A complete listing of all committee members is available at the QCWA website, www.qcwa.org.

Off To Alaska!

(with QCWA members)

by Carol Cutchall, Sr., WA4GFW and Leila Cutchall, WN4PP

On Tuesday, August 16, 2005, Carol, WA4GFW, and Leila, WN4PP, left Dulles Airport for the Quarter Century Wireless Association (QCWA) sponsored Alaskan tour and cruise. It was a dream come true. After a long 21 hour trip (plane delays) we arrived at last in Fairbanks and were met by our tour guide.

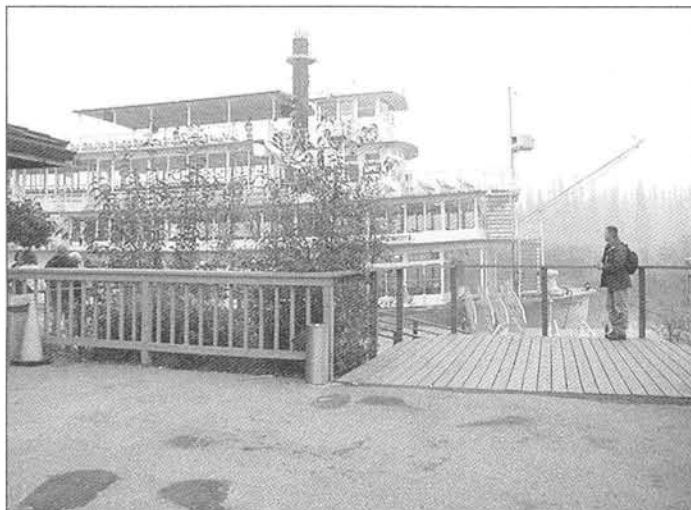
The fun began early next morning when we went on a bus tour of Fairbanks and then by paddle boat to Chena Indian Village on the Yukon River. We saw several caribou on a river bank and beautiful scenery all around. This was somewhat diminished by smoke from wild fires that were burning hundreds of miles away, but still had a special allure.



Secretary International QCWA Alan Pickering, WJ9N (Center)

Paddle Wheel Boat

The village was very interesting. There were demonstrations of the way the Indians lived and of the work they did to survive the winters. Furs were used for warmth, and there were women sewing and beading clothes made of leather. One Indian woman there had a piece she made and it was commissioned by the Smithsonian. It is now on display there. They

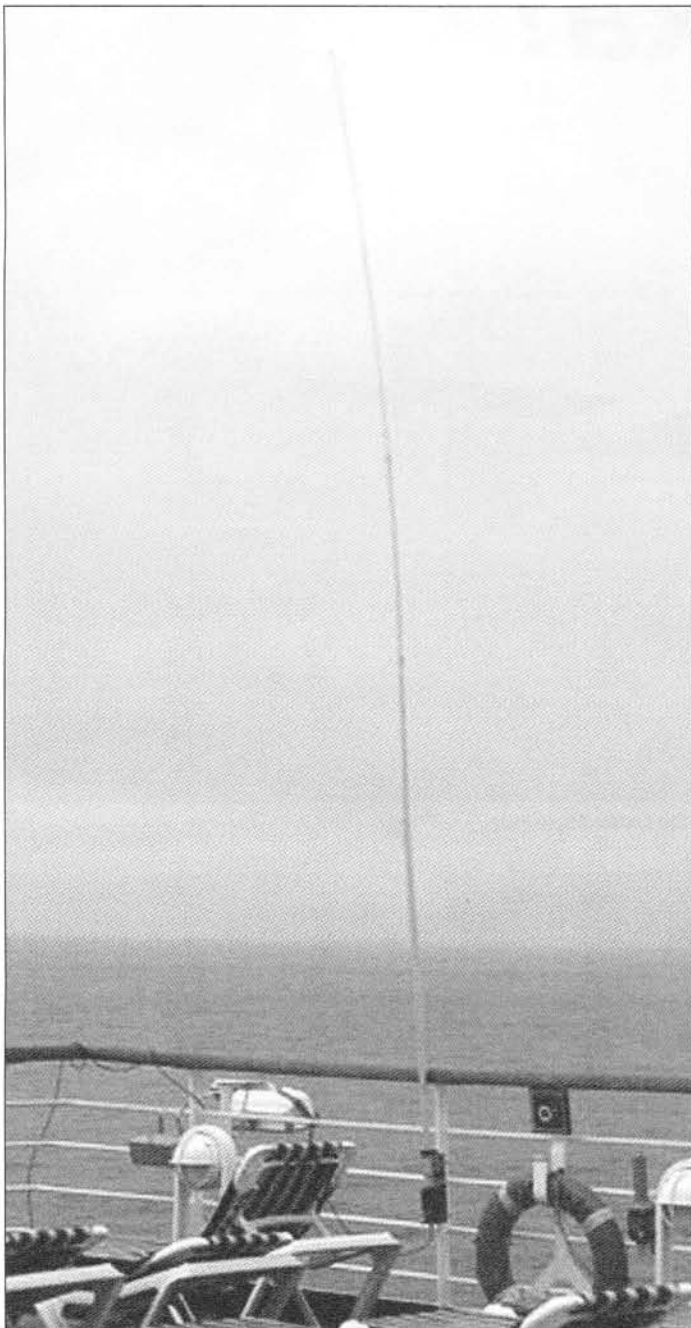


The Paddle Wheel Boat

"We saw several caribou on a river bank and beautiful scenery all around. This was somewhat diminished by smoke from wild fires that were burning hundreds of miles away, but still had a special allure"

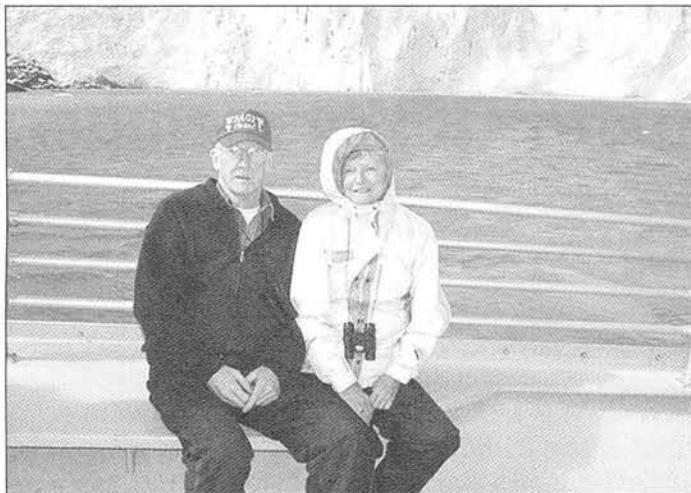
lived in small log cabins to more efficiently preserve the wood stove heat and had made structures built on stilts to help keep their food from wild animals. We also saw dogs bred for dog sledding that were being raised by a woman who has been in several Iditarod dog sled races. They were happy dogs and obviously loved her. On the way out we stopped by the Trans-Alaska Pipeline. That too, was very interesting.

In the afternoon we visited Gold Dredge Number 8, but first of all, we were treated to an "all you can eat" miner's lunch (all hams would love this). We then panned for gold. Carol and I together got about twelve dollars worth of gold and I spent ten for a locket to keep it in. Lots of fun!



Shipboard Vertical Antenna

The next morning we boarded the McKinley Explorer glass-domed train for Denali National Park. This eight-hour train ride provided us with glorious views all around. An eight-hour tundra wilderness tour in Denli National Park was on our Friday activity list. We then rode the train bound for Anchorage. A motor-coach was provided from Anchorage to Seward where we boarded Holland America's ms. Veendam for our cruise. It was here that all of the QCWA hams got together. There were about 150 of us and a good time was had by all. Good company, good food



Carol, WA4GFW, and Leila, WN4PP.



The ICOM IC7800. Bet you wish you had one of these!

and spectacular scenery, including glaciers. Spotted on the trip were whales, otters, birds, bear, moose, caribou, deer, dall sheep, salmon swimming and jumping up stream and who knows what else that I can't recall.

MS Veendam

ICOM had an IC7800 on board for our use. It was located on an aft deck with a vertical antenna on the deck above. Cold and rainy weather didn't hamper radio operations very much, the radio was under cover and people operated regularly. Carol and I both made contacts and that was neat. One of our contacts was the USS Red Oak, a victory ship off of the coast of California. Thank you ICOM!

Sunday, August 28, 2005 we all had to say good-bye to our new ham friends and return home but the entire trip was awesome!



QCWA INTERNATIONAL CONVENTION
Calgary, Alberta, Canada
September 28 – 30, 2006



www.obsd.com/qcwa-chapter151

Hosted By

Wild Rose Chapter 151

at: The Port 'O Call Inn, 1935 McKnight Blvd NE, Calgary Alberta T2E 6V4

A block of rooms have been reserved at \$100.00 in Canadian Funds (includes taxes) for a Single or Double, up to August 26, 2006. After this date there is no guarantee this price can be honored. These rates are guaranteed beginning September 23rd to October 3rd inclusive. For reservations – contact the Hotel directly at 1-800-661-1161 and be sure to quote QCW0926 for this special rate. There is a complimentary airport shuttle and many other amenities.

Name _____ Call Sign _____
(please print)

Name - Spouse/Guest _____ Call Sign (if applicable) _____
(please print)

Address _____
(please print)

City/Town _____ Province/State _____ P-Code/Zip _____

Telephone (____) _____ E-Mail _____

All prices are shown in both Canadian & US funds, rounded to the nearest amount. Please remit using the currency of your choice. All registrations must be accompanied with the correct funds, otherwise your registration can not be guaranteed. (Remember – for a pre-registration prize all funds must be received before August 1, 2006)

NOTE: September 05, 2006 – Is Booking Deadline For "Meet & Greet", Banquet, All Tours & Stage West Theatre

	<u>No.</u>	<u>Can. \$</u>	<u>No.</u>	<u>US \$</u>
Amateur Pre-reg. (Prior Aug. 1, 2006)	_____ @ \$20.00	_____	_____ @ \$17.00	_____
Amateur Registration (After Aug. 1, 2006)	_____ @ \$25.00	_____	_____ @ \$21.00	_____
Spouse /Guest	_____ @ \$ 5.00	_____	_____ @ \$ 5.00	_____
Friday 'Meet & Greet' (Western Style Beef on Bun)	_____ @ \$25.00	_____	_____ @ \$21.00	_____
Saturday Banquet (Buffet)	_____ @ \$40.00	_____	_____ @ \$34.00	_____
Sat. Stampede Casino (Incl. lunch)	_____ @ \$20.00	_____	_____ @ \$17.00	_____
Friday - Aero Space Museum Tour	_____ @ \$ 8.00	_____	_____ @ \$ 7.00	_____
Sunday - Stage West Theatre & Brunch	_____ @ \$65.00	_____	_____ @ \$55.00	_____
(Includes transportation to Theatre & return to Hotel)				
Commemorative Convention Pin	_____ @ \$ 5.00	_____	_____ @ \$ 5.00	_____
(Limited supply)				
	TOTAL:	_____	TOTAL:	_____

Queries may be made via e-mail to ve6afo@3web.net or telephone: (403)-226-5840. Make checks or Money Order payable to "QCWA Convention-2006" and mail to Nick Janzen at: 816 – 21 Avenue SE, Calgary, AB T2G 1N1.

For convention updates visit <http://www.obsd.com/qcwa-chapter151>

(continued from page 27)



QCWA Chapter 107, February 18, 2006, presentation of QCWA 75-Year Award to Walter Parley, K4QE. Shown, Left To Right: Warren Fletcher, KE4VBA; Bert Onachilla, KG2G; Walter Farley, K4QE; Ullis Tucker, W4YRK; Bill McCabe, W2ZHZ; Jay Hitchcock, K8YGH; Ted Rossiter, W4DUE.

Chapter 119, Tidewater (VA)

On Sunday morning, February 12, 2006, the QCWA Chapter 119 Sunday Roundtable was called into session for the inaugural meeting. Outstanding response from the local membership resulted in nearly 50% of the membership checking in on this first net meeting. The Roundtable meets weekly on Sunday morning at 0900 on the local 146.895- repeater. A roster of volunteer Net Control Stations, (Barry, K5VIP; Vic, W4VIC; and Rich, WA4BUE), rotate duty as NCS. Chapter participation has remained strong even with many competing weekend activities. QCWA members visiting the Tidewater area are welcome to join the Roundtable whenever in the area.

A successful recruiting day was enjoyed at the Richmond Frosfest – a Hamfest and Computer Show that was also the designated ARRL Virginia State Convention.



Walter Parley, K4QE, was presented a QCWA award for 75 years as an active Radio Amateur.



Chapter 110: Front L-R: Lois, WNODEP; Al, W0PE; Wendell, W0TQ; Al, W0BBO; Willis, W0QBK; Dave, N0LJK; Back row: Don, K4DEIC; Terry, K40BHO; Jeff, K40YP; Alvin, W0ME; Larry, N0LL; Dave, W0FCL; Ed, W0BBM; Harold, W50M; Terry, K0UAS; Dewite, W0OK; Gary, W40EAF; Bud, W0NEB; Helen, K46KHD; Nadine, K0UHF; Fred, K0TCS; Al, W0TEA.

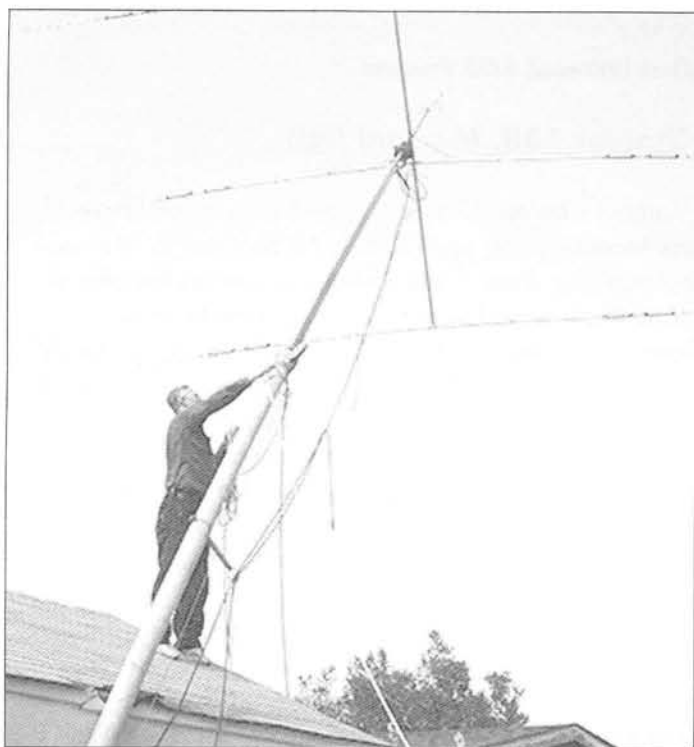
Several new and former QCWA members signed up with QCWA and Chapter 119. It was a pleasure to welcome QCWA members from Vic Clark Chapter 91, (VA), including their new President, Ray Johnson, K5RJ, and their members, Jim, AG4MA; Tom, N4ZPT; and Dick, W2YE.

Chapter 119 has established general membership meetings on a Quarterly basis. In lieu of a general membership meeting in February, a Meet-n-Greet-n-Eat type informal meeting was held on Feb 16th at the Happy Buffet – a local Chinese Buffet establishment. Several members and guests, including spouses, turned out for this occasion: Members Rich, WA4BUE; Bill, W4OUK; Bill 'Smokehouse', K4ASI; Charlie, W1WTG; Barry, K5VIP; Ron, W8RJL; Jim, WT4R; Vern, W4THN, and Vic, W4VIC. Among the guests attending were Judy, W4JJY, spouse of W8RJL; Irene, spouse of WT4R, Johanna, KE4SBO, spouse of W4VIC; Butch, KE4AZL and Sonny, K4WYS. There will be regular informal meetings held monthly in other-than-quarterly-meeting months and all members and friends are cordially invited to attend. Spouses of members are always welcome at Chapter 119 events.

March has been a month filled with activity by Chapter 119 members. Our First Quarter General Membership Meeting was held on March 25th at C & M Cafeteria, located at the corner of Witchduck Road and Independence Boulevard. Jim Donaldson, KN4IJ, presented a very well-received program with audio-visual presentation illustrating several high points related to his work as a former (now retired) ABC Radio/TV staffer. Of particular interest were some of the details involved in setting up Winter Olympic remote broadcasts from Sarajevo, work with the White House Detail throughout election campaigns, and more recently from his perspective as part of the City of Norfolk Radio Lab crew involved with reform-



Photo of the award presentation: (Left to Right) Jim Wise, W4PRO, Past Secretary/Treasurer; Gee Gwaltney, W4IF; and Charlie Chapman, W1WTG, Past President, presenting a 70-Year Award to Gee Gwaltney at Chapter 119 Award Presentation.



KN4KL attaches line to falling tower during the Chapter 119 tower rescue event.

ing the 800 MHz spectrum and other trunking issues as local municipalities modernize communications facilities. At the business meeting the members voted a \$50.00 contribution to the Virginia Air and Space Museum Amateur Radio Club to assist in the relocation and set-up of the demonstration amateur radio station. Members Ron Young, W8RJL; Vern Fix, W4THN, and Charlie Chapman, W1WTG were appointed as an ad hoc committee to design a name tag for Chapter 119. The name tag should be available for the June Second Quarter Membership meeting.

On a sad note, Member Don Eaton, W2SBI, called on

March 18 to relate that his beloved wife, Rosie, had unexpectedly passed away. Sincere condolences were sent to Don and his family on behalf of Chapter 119 and the QCWA Organization.

Several on-the-air activities promoted by Chapter 119 kept members involved in general amateur radio operations. Dick Siff, WA4BUE, active member of Chapter 119, achieved a noteworthy score in the recently-conducted CQ 160 Meter SSB Contest. Working with a friend, Walt "Sonny" Hood, K4WYS, and operating as MULTI-TWO, HIGH POWER, the team made 682 QSO's and earned 55 Multiplier credits for a claimed score of 37,510 points. This is a fine score. Congratulations to Rich and Walt.

Several Chapter 119 members participated in the recently conducted Virginia QSO Party. Although many members spent significant time involved in support of the local ARES group during the Shamrock Marathon activities, several were able to take part in the VA QSO Party. Jose, N4BAA, achieved a record-smashing claimed score of 403,172 points. If this score holds close to that number after log cleansing he will have just about doubled the previous single operator record score. Congratulations, Jose. Scores from others are included to indicate the level of participation by Chapter 119 members: N4BAA – 403,172 points (1,382 QSO's); W4VIC – 7,160 points (101 QSO's); K5VIP – 41 points (5 QSO's). Several members were known to have participated but have not reported scores – KI4VB, W8RJL, and W4PRO. Congratulations to all QCWA members who participated.

March was not without other forms of excitement for Chapter 119 members and friends. Late in the afternoon of March 29, the Chapter Secretary/Treasurer received a phone call from the spouse of member Jim Allen, WT4R. As it happened, Jim went out to his crank-up tubular tower to raise the antenna. Suddenly the base plate, weakened by years of weather and etc., gave way and the tower tilted, leaning at about a 45 degree angle and came to rest against a storage shed close by the tower base. A call went out for assistance and Ron, W8RJL, quickly organized a volunteer rescue team. QCWA Chapter 119 members Ron, W8RJL; Jose, N4BAA; Bill, W4WV; Charlie, W1WTG; and Vic, W4VIC; assisted by friends Ed, KN4KL; Chris, AI4MI; Butch, KE4AZL, and a visiting amateur radio operator from England, Brian, G4HIY met and surveyed the situation. Thanks to the consummate mechanical skills of KN4KL and with the help of all the others in the group the tower was taken down with no damage to the installed triband yagi. Jim and his much relieved spouse, Irene, extend grateful thanks to all who assisted in this operation. Great job, guys!

Vic Culver, W4VIC, Secretary/Treasurer

Chapter 120, Quarter Century Wireless Women

Thank you so much to those of you who have already contacted me. Please keep the information coming.

For those of you who are going to the Calgary Convention, we've scheduled a meeting at 10:30 a.m. to 12, on Friday, September 29th in the Yankee Beacon Room, on the 7th floor. We would really like to see you there. Having our get-together on the first morning will give us a special advantage. We'll have time throughout the Convention to renew old friendships and make new ones. Hope to see you there.

Ann Nutter, VE3HAI, Secretary

Chapter 126, Piedmont (NC)

The regular quarterly meeting of North Carolina Piedmont Chapter 126 was held March 25, 2006 at Yarborough's Restaurant in Lexington, NC. 23 members and guests were present to hear Carl Smith, N4AA, our special guest, enjoy fellowship and elect officers for the new year. New Chapter members were Norm Robbins, W4HF and Wes Jones, WJ4DX.

Sympathies were offered for Earl Fox, W4DWR, and his family, a veteran of our Chapter, who is ill and recuperating. We hope you join us on our weekly net and at meetings soon! We also wish Chuck Bridges, W4WXZ, and Nancy Brown, KG4JWP, quick recoveries. Several of our members were recognized for participating in the recent QCWA QSO PARTY; keep it up!

George McBride, W4DGJ, continues as our faithful weekly net control station and provided the net activity report for the past quarter. Member John Covington, W4CC, was recognized for his excellent work as the ARRL NC Section Manager the last six years as he steps down at the end of March. We look forward to supporting Tim Slay, N4IB, the new NC SM.

After receiving no further nominations from the floor, the following members were elected as Chapter 126 Officers for the new year: President: Chuck Littlewood, K4HF; Vice President: Jack Emerson, W4TJE; Secretary: Charlie Swindell, WB4DCM; Treasurer: Billy Stewart, WA4PVI. Outgoing President, Jack, W4TJE, said he was honored to be a member of Chapter 126 and thanks WA4PVI, W4ONJ, W4CC, N4UH, W4DWR, K4HF and K4MK for their guidance in Chapter affairs. Other helpers have been W4AJT, KM4UO, KI4DH and K4SWN. Thanks to the outgoing Officers for their service.

After dinner and business Carl Smith, N4AA, member of QCWA Chapter 145, owner and publisher of THE DX

MAGAZINE, QRZ DX, and DX Columnist for CQ Magazine spoke to us on his adventures in ham radio. Topics included the 3Y0 dxpedition, dx pile-up behavior, amateur radio equipment manufacturing and sales, and his Chapter's creation and ongoing work of the Southern Appalachian Radio Museum in Asheville, NC. We appreciated Carl taking time to travel and share his activities with us. Henry Elwell, N4UH, won a subscription to The DX Magazine and QRZ DX for being the longest-licensed ham in attendance, 70 years. Inquiries on the publications may be made at www.dxpub.com A link to the Museum is on the website.

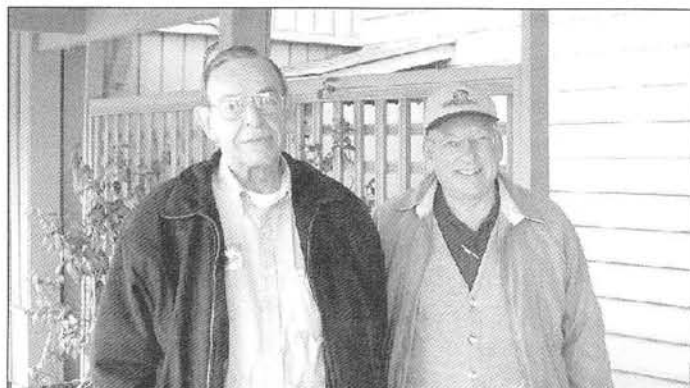
As incoming President, I and the other Officers welcome your comments. Program suggestions would be appreciated. 2006 Membership dues are due to WA4PVI. Chapter 126 Life Membership is also available. The Chapter 126 Website is www.qsl.net/qcwa126 Don't forget our Weekly Net, 8:45am, local time, 3935 Khz each Saturday mornings.

Chuck Littlewood, K4HF, President

Chapter 138, Marconi (NJ)

Marconi Chapter 138 participated in an open house at the Marconi Hotel near Belmar, NJ on April 1. Various political dignitaries were on hand to witness the official transfer of ownership from the U.S. Army to Wall Township of several Marconi buildings located at the old Camp Evans Area of Fort Monmouth. Wall Township, in turn, leased the buildings to the Infoage Learning Center for the next 20 years. Marconi Chapter 138 is one of several organizations supporting the Infoage Learning Center and we have been assigned one of the rooms in the Marconi Hotel.

Prior to this event, Chapter 138 fixed up "our" room with our QCWA banner, silent key plaques, QSL cards, and Chapter Charter hung on the walls. We erected a multiband antenna outside the hotel and set up an HF station in the room. We operated this club station, WA2GM



Carl Smith, N4AA, left, Special Guest Speaker and Chuck Littlewood, K4HF, President, Piedmont Chapter 126 at the March 25, 2006 dinner meeting in Lexington, NC.



President, Bernard Ricciardi, WB2EJT, with his grandchildren, and Secretary Bob Buus, W2OD, are showing the children the WA2GM club radio station.

(Guglielmo Marconi) for the first part of the QCWA Spring QSO Party. We also had on display for the public a working spark-gap transmitter (which QRM'd our HF station), and several Morse code displays including keys and CW sounders wired together on opposite sides of the room, a Vibroplex "bug" connected to a CW sounder, and an AT&T telegraph sounder wired to a key. We also had hand-outs available to the public which gave background on Marconi, on how to become a radio amateur, QCWA applications, and a brochure describing our relationship with the Infoage Learning center. It was a great opportunity to show ourselves to the public.

This site was the Belmar receiving station built by Marconi in 1913 and operated by his company until World War I. The Marconi Hotel provided room and board to the many young men who operated the station by copying the transatlantic traffic from Europe. Just prior to World War II, the U.S. Army took over the site and named it the Camp Evans Area of Fort Monmouth. Much of the subsequent RADAR development took place at this site. It was truly an honor to be able to operate our club station from this historic place.

Bob Buus, W2OD, Secretary

Chapter 142, Northwest Ohio (OH)

At the February 2006 meeting of Chapter 142 the following persons were awarded Certificates of Achievement: Loren Phillips, W8PSK; Martha Hanna, K8AAC; Robert Hanna, K8ADK; all for 50 years as a licensed Amateur Radio Operators. K.G. Bullock, W8YDJ 60 years as a licensed Amateur Radio Operator, and Alden Cooper, W8BHL for 75 Years as a licensed Amateur Radio Operator. W8CFO was not present and not pictured.

Paul Lentz, K8PL



From left to right: Loren Phillips, W8PSK; Alden Cooper, W8BHL; Martha Hanna, K8AAC; Robert Hanna, K8ADK; K.G. Bullock, W8YDJ. Photo provided by Paul Lentz, K8PL.

Chapter 146, Twin State Chapter (NH & VT)

The Twin State Chapter of QCWA 146 would like to invite all New England Chapters to our mixer on July 22nd, 2006 at the Mt. Tom Recreation facility in Holyoke, Mass. The facility has a nice barbeque available and this Chapter will furnish the charcoal. Seating may be an issue, so please bring a lawn chair for your pleasure. Please bring your own provisions, and if you'd like to share something special with the group, (such as a dessert) a table will be designated for that.

This will be the second such attempt to try and meet fellow QCWA members and to share information regarding events and ideas generated by this knowledgeable group. Last years event was very well attended. We even had a wonderful music interlude given by W1BMK, Norm Gregoire. Please come and join us!

Our nets on Sunday morning at 8:30 AM on 3.912 MHz., are very sparsely attended, as is our Thursday evening net at 7:00 PM on our local 2-meter repeater, the Mt. Ascutney, Vermont Repeater on the frequency of 146.76 MHz. We have varied discussions on each net and we're sure you'd find them quite interesting. Please join us!

Cheryl A. Breuning, W1WEY, Secretary

Chapter 151, Wild Rose, Alberta

We held a luncheon meeting Saturday April 29th, 2006 in Calgary. We had a very interesting program presented by the Calgary Rocketry Club. Many of the members involved acquired their ham radio license in order to transmit radio telemetry back to earth from a soaring rocket.



Sir James Loughheed Elementary Student asks Commander Bill McArthur, KC5ACR, a question. Photo Courtesy VE6YTV.

They build their own telemetry and interfacing gear (not often seen today) which allows them to use amateur radio for transmitting data back to ground.

Another meeting of the Planning Committee for the QCWA National Convention - 2006 was held on April 4th, 2006. The Convention registration form is in both the Spring and Summer 2006 QCWA Journal. In this issue there is a slight change in the registration form. It should be noted that the Stampede Casino (including lunch) is in a ventilated smoking-environment room. QCWA Chapter 151 members have volunteered at this Casino for the Calgary Amateur Radio Association (with the share of the profits used for various projects i.e. DX Club antenna towers) have not found the environment that bad. Those who have already registered for the Casino and wish to opt out, may request a refund.

The Spring 2006 QCWA Journal report mentioned the December 2, 2005, International Space Station (ISS) contact between students at the Ralph McCall school in Airdrie and Commander Bill McArthur, KC5ACR. A web site was given outlining a brief story and photo. Since then there has been another contact by students at Sir James Loughheed Elementary school on Tuesday March 21, 2006 at 11.18 A.M. MST with Commander William McArthur on the ISS. An article in the Calgary Herald said that the twelve students were able to ask about 12 questions during the 10 minute pass. "People want to explore" McArthur said when asked why we need the space station. Ken Oelke, VE6AFO, President of QCWA Chapter 151 was the organizer of these continuing contacts with the ISS.

Jack Ambler, VE6CAQ, Secretary

Chapter 154, Leo Meyerson, Greater Palm Springs (CA)

Three Chapter members were fortunate to have Leo Meyerson, W0GFQ, present them with their Service Awards: Don Smith, K6CHS, and Emil Oana, K6LGI, for 50 years, and Gene Pentecost, W4IMT, for 60 years. It is a special honor to receive these awards from Leo.

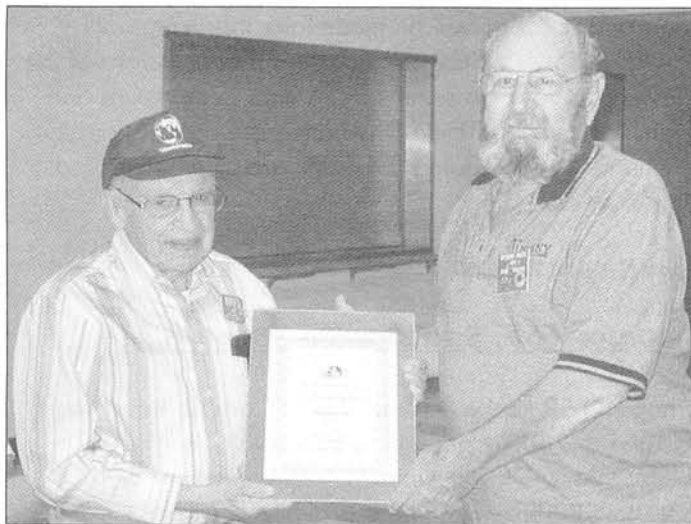
As part of the January meeting, President Gene, W4IMT, lead a discussion of the ARRL's petition to the FCC, now known as RM-11306, to regulate by necessary bandwidth rather than emission mode. While this proposal may have little effect on current operations, it may well have a significant effect on the future of amateur radio. We discussed the reasons for the proposal, what it means, and the proper way to comment to the FCC. Emphasis was on understanding the petition and members were encouraged to file comments by the deadline.

Loney Duncan's, W0GZV, program at the March joint meeting with the Coachella Valley Amateur Radio Club was followed by very high compliments from the audience of fifty hams and guests. His first-hand account, as team leader for Collins Radio, of the trials and tribulations of developing an airborne 17kHz, 200KW transmitting station with a 28,000 foot antenna was intriguing. Loney was with Collins Radio during the 50s, 60s, and 70s, so he was anxious to meet Leo and swap stories.

During March 2006, about fifty hams and other guests from around Southern California gathered for a picnic party to celebrate Leo Meyerson's, W0GFQ, 95th birthday. Dick Norton, N6AA, ARRL Southwestern Division Director, delivered a special message from ARRL Headquarters. Dave Bell, W6AQ, spoke of Leo's accom-



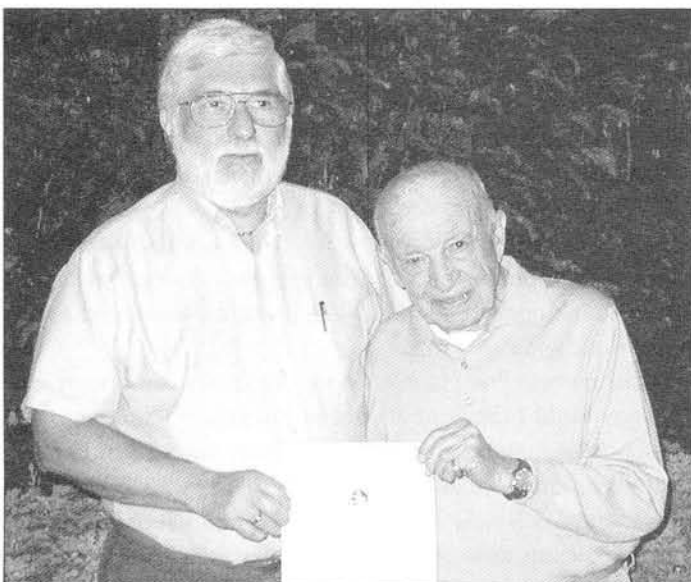
Leo, W0GFQ, and Gene Pentecost, W4IMT.



Leo, W0GFQ; and Don Smith, K6CHS.



Leo, W0GFQ; and Loney Duncan, W0GZV.



Emil Oana, K6LGI; and Leo, W0GFQ.



Leo, W0GFQ; John Aiton, W6HAG; and Les Kruger, K6JUA.

plishments and contributions to amateur radio. A mini special event station on 20 meters allowed Leo to receive congratulations from several hams around the country, including Dick, W0HXL, a member of Chapter 210, in Omaha. Three known surviving charter members of Chapter 154, Leo Meyerson, W0GFQ, John Aiton, W6HAG, and Les Kruger, K6JUA, interrupted their eating long enough for a photo. As usual, there was plenty of food, drink, and talk. Leo really enjoyed the celebration and thanks everyone who attended or sent greetings.

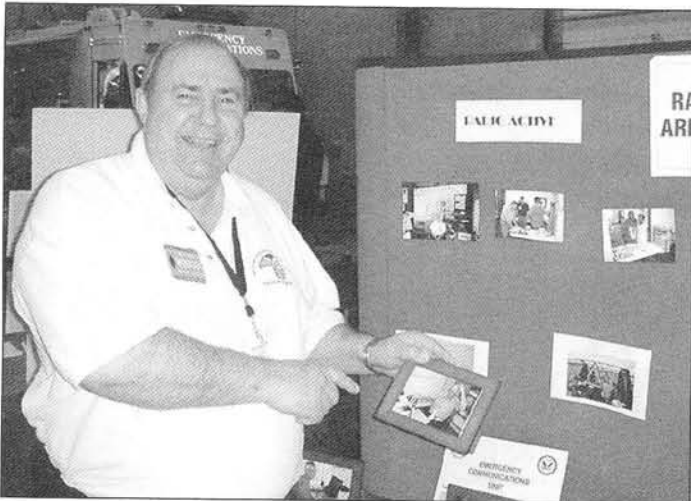
Gene Pentecost, W4IMT, President

Chapter 162, Southeast Wisconsin (WI)

The last report talked about the verbiage of last year's recipient of the Olie Fox Award, but the award photo was not available at publication time. I have included it in this article; that of our President, Lloyd Gorsiski, WB9RGO, presenting the Olie Fox award of Excellence for 2005 to Ray Wolfe, K9RI. The award folks are on the lookout for candidates for 2006 selectee. To be nominated, a licensed Ham must have been so at least 25 years prior to his or her selection and have contributed significantly to Amateur Radio and his or her community. Nominations are then given to the Olie Fox Committee and the honor will be bestowed during our Christmas party in early December.

The other picture is of Dave Voss, WB9USI, Racine County's ARES EC with a display setup during Amateur Electronic Supply's Annual Superfest in Milwaukee, Wisconsin. It is a wonderful outing for all the local Hams with almost all of the larger Radio Manufacture Reps on hand and many wonderful forums; an event that the local and many not-so-local Hams enjoy each Spring. Thanks Ray, for bringing this event to life each year.

It is good to have Herb Ladwig, W9PHJ, back home



Dave Voss, WB9USI, Racine County's ARES EC, with a display setup during Amateur Electronic Supply's Annual Superfest in Milwaukee, Wisconsin.



President, Lloyd Gorsiski, WB9RGO, presenting the Olie Fox Award of Excellence for 2005 to Ray Wolfe, K9RI.

and joining us during the club's Thursday evening net. Herb had taken a nasty fall and had to have a little rehab while the broken bones mended. It is nice to have your strong base signal back on the repeater during the net again.

Our older member, Spencer Clope, W9LDH at 95, became a Silent Key a little more than a year ago. Our Chapter assisted his family in disposing of all of his Ham gear over the following months and the proceeds from their sales, went into a scholarship fund that the family wanted to set up. This was a program near and dear to Spence in life and his Chapter will so honor him as they established the Spencer Clope, W9LDH Memorial Scholarship in the amount of \$500 annually to a full time college student that currently holds an Amateur Radio License and live(s)(d) in a county that one of our Chapter Members currently reside in. The Scholarship Committee, as appointed by Chapter President Gorsiski, WB9RGO, has Larry McCalvy, WA9JMO and Gary Adams, N9GA, tasked with making the first year's selection; details of cri-

teria and selection will be made later this year.

As I sit here writing this quarter's report, visions of the Dayton Hamvention some seven-weeks in the future and plans for the 2006 Field Day outing are dancing around my head. We are going to have a grand Amateur Radio time in 2006.

Larry McCalvy, WA9JMO

Chapter 169, Sacramento Valley (CA)

Chapter 169 now meets monthly at Carrows Restaurant located at 2800 J Street in Sacramento, CA. The Restaurant is in the downtown area westerly of the Interstate 80 Freeway. There is plenty of adjacent parking. Meetings are held on the 2nd Wednesday each month. We try to have a speaker for each of our monthly meetings. The last quarter featured:

A video from PBS about radio collecting.

A video provided by the Northern California DX Foundation about last year's expedition to Kerguelen Island (a French possession in the Antarctic region) which operated under the call of FT5XO.

Gary Stilwell, K16T, showed a video regarding preparations for the upcoming DX-pedition to Peter One Island. On a sad note, we lost old-time member Ted Rast, W6SMU, who became a SK on March 6th.

Our change of meeting location has been working well. So come and join us at 9 AM. Troops start gathering at 8 AM for the no-host breakfast. YLs are always welcome. For further information please contact our President, Paul Wolf, W6RLP, at (916) 489-8112.

Gary Stilwell, K16T, Secretary/Treasurer

Chapter 173, Golden Triangle (FL)

Our Chapter has a luncheon meeting the first Saturday of each month at 12 noon at Barnhills Restaurant in Leesburg, Florida at the Lake Square Mall. Talk in on 145.39 if you're in the area. Whether or not you are QCWA you are welcome.

Our Tuesday evening net is at 1930 hrs on 145.39 MHz open repeater and can be reached during the net via echolink node nr 74414. We invite all interested amateurs worldwide to join us.

Our current President is Roger, W9JRY, who also is our Tuesday night Net Control. Under his expert leadership the Chapter membership has more than doubled in the past year. It may have something to do with his policy of presenting each new member with a small keepsake in the form of a crisp new one hundred dollar bill. Then again it might just be that he is a very capable leader. In either



The fine folks from Chapter 173 at their monthly luncheon.



Henry, W3DJE, is presented with a plaque honoring his 75-year contribution to Amateur Radio. Left to right is Henry Schurman's wife Ruth, Henry, and our President, Roger Harper.

case the Golden Triangle Chapter 173 wants to say "thank you Roger".

At our last meeting, Henry, W3DJE, was presented with a plaque honoring his 75-year contribution to Amateur Radio. Henry related information to the group about some of his many adventures in our hobby since getting and keeping his license continually since 1931. All we could say is "wow" and are proud to have him as our "youngest senior member".

Other members were duly honored with certificates of appreciation for continued service to QCWA Chapter 173. Our long-time secretary, girl Friday and "do everything girl," Edith Etzroth, is now officially retired.

Al Sziriski, K2SSE

Chapter, 175, Oregon Coast (OR)

The Oregon Coast Chapter of QCWA held their early

Spring meeting on Saturday March 25th at the Surfrider Resort. Excellent food, reasonably good weather and lots of upbeat conversation with minimum levels of QRM were enjoyed by all. At our January meeting Roger Lincoln, W7HH, was elected Chapter President and Don Margeson, W7DS, was elected as Secretary/Treasurer. Carl Somdahl, W7LI, presented the new Officers with the original Chapter Charter signifying the change in leadership for the group. As a reminder, this Chapter meets every other month, usually on the last Saturday (not always), and the following meeting dates have been decided upon for the rest of 2006; June 3rd, July 29th, September 30th and our annual Christmas party on December 9th.

Our Chapter would like to officially welcome our newest member Phil Logan-Kelly, KD7ZD, and his wife Heather. Phil was first-licensed around 1956 and became interested in amateur radio in his radio shop class. Phil aced that class and his novice license as well. Active in the Pacific Northwest VHF Society, Phil can often be found on the air operating PSK on 40 and 20 meters. He is a retired radio technician and resides in Toledo, Oregon. Phil is quick to mention that he enjoys the hobby because of the people involved and remembers that in his early days as an amateur radio operator he (allegedly) had a full head of hair.

Also new to the Chapter and sporting the Presidential cap by unanimous vote at the January meeting is Roger Lincoln, W7HH. Roger was first-licensed in 1961 and has been involved in radio communications as a professional most of his life. He became interested in radio and electronics during high school and, courtesy of the US Army, attended their radio school. Following his service in the Army Roger worked for the Central Intelligence Agency as a radio technician. In this position Roger traveled extensively throughout the world and even managed to operate a ham radio station in Liberia as EL2FX. Currently Roger owns Coast Radio Service in Tillamook, a business which he has operated since 1998. Roger is active as a member of the Tillamook Emergency Amateur Radio Service, the Oregon Coast Repeater Group and is a Volunteer Examiner for the Lincoln City VE Team. We are pleased to officially welcome Roger and his wife Donna to the Chapter.

Don Margeson, W7DS, Secretary/Treasurer

Chapter 196, Edison, Cape Coral (FL)

Thank goodness it is time for Spring break. Chapter 196 members have had a busy winter. A special event station at the Thomas Edison winter home was headed by Stella

(continued on page 40)

Date	Mem. #	Name	Call	City	ST/PR	SPONSOR	SCALL
3/27/06	*33237	CASHDOLLAR, ROBERT C	NR8U	NEWARK	OH	FRANCIS TENDER	WD8E
1/3/06	33263	BARRETT, GARY E	N7GEB	CLINTON	WA	-	-
1/3/06	33264	FORSYTH, ANDREW	AF3I	DILLSBURG	PA	JOHN JOHNSTON	W3BE
1/3/06	33265	SPINDOR, BRIAN S	KA7KUJ	TACOMA	WA	WORTH GURLEY	W7WG
1/4/06	33266	WILKES, JAMES W	W1VRY	TOPSHAM	ME	-	-
1/5/06	33267	LA VIERS, TERRY G	KU8X	AKRON	OH	-	-
1/9/06	33268	ENEMAN, ELNER	WA0PLB	DULUTH	MN	-	-
1/9/06	33269	HORVAY, WALTER M	KU1Q	NAPLES	FL	R M MONTBRIAND	W0OB
1/10/06	33270	PHELPS, KAREN B	KA6NZZ	MEDICAL LAKE	WA	JIM PHELPS	W6LLP
1/10/06	33271	SCHMID, GARY S	KC2BUA	MYSTIC	CT	-	-
1/10/06	33272	HARRIS, JESS W	WOJWH	MASON CITY	IA	-	-
1/10/06	33273	NICHOLS, ERIC PAUL	KL7AJ	NORTH POLE	AK	-	-
1/11/06	33274	MEREDITH, RON	K6TUJ	DEWEY	AZ	-	-
1/11/06	33275	CURTIS, CHARLES E	KA80FP	NEW LEBANON	OH	-	-
1/12/06	33276	QUICK, ROBERT S	K2UFO	ROSLYN	NY	-	-
1/13/06	33277	HENGEN, JOHN G	K3HOI	JESSUP	MD	LESLIE T JAMISON, JR	WR3X
1/13/06	33278	BLANCHETTE, MIKE	W5MPB	DALLAS	TX	-	-
1/13/06	33279	MORGAN, ARLEN	N4PO	CHATTANOOGA	TN	LOWELL BENNINGTON	WD4DJW
1/13/06	33280	WILLIAMS, STEVE	K0SRW	COLORADO SPRINGS	CO	-	-
1/13/06	33281	OLIVER, RONALD J	W7VU	MYRTLE POINT	OR	-	-
1/17/06	33282	FLEISCHMANN, JOHN G	W12C	CENTER MORICHES	NY	-	-
1/17/06	33283	KIDWELL, RUSSELL H, JR	N4RZP	REEDVILLE	VA	-	-
1/17/06	33284	STACY, C MACK	W5LUC	FORT WORTH	TX	V TED MARTIN	KF5LO
1/17/06	33285	MARGESON, DONALD R, JR	W7DS	CLOVERDALE	OR	-	-
1/17/06	33286	NENDICK, RICHARD M	W7QWD	WINNEMUCCA	NV	-	-
1/18/06	33287	JONES, MORRIS V	WB9SFM	COUNTRY CLUB HILLS	IL	-	-
1/18/06	33288	WINTERSOLE, MARK S	WB5NMZ	MONTGOMERY	AL	-	-
1/18/06	33289	WILKIN, TERRY N	W6TNW	MOUNTAIN VIEW	CA	-	-
1/18/06	33290	WALKER, PHILLIP M	WB0CW	MANDAN	ND	-	-
1/18/06	33291	RUFFIN, MACK T, III	W4TWS	GLEN ALLEN	VA	-	-
1/19/06	33292	WILSON, VINCEL L	N4ECS	EDMOND	OK	-	-
1/23/06	33293	SCIAMMARELLA, JOSEPH JRKC2LQ	LINDENHURST	NY	-	-	-
1/23/06	33294	SIGLIN, THOMAS G	WA2LTD	VESTAL	NY	W THOMPSON	W2MTA
1/23/06	33295	ROOT, ROBERT S	WA2TDO	GREENE	NY	W THOMPSON	W2MTA
1/23/06	33296	BARBER, DONALD E	K2VKZ	MARATHON	NY	W THOMPSON	W2MTA
1/23/06	33297	HUMSTON, RICHARD E	WA4ABM	WINTER HAVEN	FL	-	-
1/24/06	33298	SCHOLZ, BETTY J	KC8FF	NOVELTY	OH	-	-
1/24/06	33299	LADERMAN, LOUIS N	W0FK	ST LOUIS	MO	-	-
1/24/06	33300	JONES, WES	WJ4DX	KERNERSVILLE	NC	JACK EMERSON	W4TJE
1/24/06	33301	FAIN, DAVID	KI6BWW	MILL VALLEY	CA	-	-
1/24/06	33302	DONAHUE, TERRY L	KG6MW	RUTHERFORDTON	NC	-	-
1/24/06	33303	WILCOXON, SCOBIE L, SR	AC4GM	HOUSTON	TX	-	-
1/24/06	33304	MERTZ, RONALD ALLEN	WA2TUD	ANKVILLE	NY	-	-
1/24/06	33305	HYER, DAVID F	WB7NKK	GREEN RIVER	WY	-	-
1/24/06	33306	ROGERS, STEPHEN D	W7VI	RENO	NV	-	-
1/26/06	33307	SEBRING, MICHAEL V	AL2P	KETCHIKAN	AK	-	-
1/26/06	33308	BANKS, RULEY F, JR	WA3FYS	DAGSBORO	DE	MIKE MC CLANAHAN	W3RMM
1/27/06	33309	DENMARK, ANDREW	WD4MIA	ORIENTAL	NC	-	-
1/27/06	33310	STYRON, HARRY L	K6HS	WALNUT CREEK	CA	-	-
1/30/06	33311	FRANK, H W	NN8P	GLENDALE	AZ	-	-
1/31/06	33312	THOMPSON, BRUCE G	W7DNA	PORT ANGELES	WA	BRUCE C THOMPSON	N7TY
1/31/06	33313	BESEMER, MICHAEL W	WM4B	KATHLEEN	GA	-	-
2/2/06	33314	CHAMBERLIN, MARK	WB2PKO	BALDWINVILLE	NY	-	-
2/28/06	33315	FLYNN, ROBERT T	WA4OAB	CLEARWATER	FL	STERLING E HASKELL	W1KIQ
2/3/06	33316	SCHAUER, GRANT S	N5CQT	LAS CRUCES	NM	KERMIT K SCHAUER	KM5W
2/6/06	33317	REEVES, MARTIN KEVIN	K1OK	LAS VEGAS	NV	-	-
2/6/206	33318	PIERCE, DONALD E	AB2HT	ENDWELL	NY	W W THOMPSON	W2MTA
2/6/06	33319	LEDLOW, LARRY L, JR	N1TX	FAIRBANKS	AK	-	-
2/6/06	33320	O'FARRELL, DAVID J	WB0IXV	ESTES PARK	CO	-	-
2/7/06	33321	LINCH, EDWARD H, III	KA4AXS	NICEVILLE	FL	-	-
2/7/06	33322	MURRAY, MALCOLM PAUL	AD5J	STARKVILLE	MS	-	-
2/7/06	33323	SHOWALTER, RONALD A, JRKA9EEA	RICHMOND	IN	-	-	-
2/7/06	33324	DYE, JIMMIE W	WB0ZWW	LEOTI	KS	-	-

* Correction of address to Newark, OH

New Members (continued)

Date	Mem. #	Name	Call	City	ST/PR	SPONSOR	SCALL
2/7/06	33325	EBERHART, JAMES A	KC9IKK	RICHMOND	IN	MIKE CHAMBERS	W1IDX
2/8/06	33326	DINSMOOR, ROLAND H	N6JQL	EXETER	CA	-	-
2/8/06	33327	WATKINS, FREDERICK J	KB5WH	DOUGLASVILLE	GA	-	-
2/10/06	33328	LEVENS, STU	KBOKM	LOUISIANA	MO	-	-
2/10/06	33329	SALMON, WILLIAM E	WA2EIL	LONGBOAT KEY	FL	CROFT TAYLOR	VE3CT
2/13/06	33330	WOODWARD, RAYMOND LEEK3VSA	HILLSBOROUGH	NC	-	-	-
2/14/06	33331	BELL, WILLIAM L	W3RSR	SPRINGDALE	PA	CROFT TAYLOR	VE3CT
2/16/06	33332	JONES, HORACE	VE3BWH	IROQUOIS FALLS	ON	ARTHUR F KUNST	W3WM
2/16/06	33333	BRAITHWAITE, WILLIAM J	W4NML	BLACKFOOT	ID	-	-
2/16/06	33334	BURNS, RICHARD G	K8SKX	FAIRVIEW	NC	JOHN TRAVIS	W4QCF
2/17/06	33335	DENMAN, JOSEPH L	K5XGG	COLMESNEIL	TX	-	-
2/21/06	33336	LAMHUT, PAUL	WB2HHH	BRETON WOODS	NJ	JOHN B JOHNSTON	W3BE
2/22/06	33337	SIMS, HOWARD W	W4OSX	ALTAMONTE SPRINGSFL	AL LA PETER	-	W2AS
2/22/06	33338	WILLARD, JAMES R, SR	WA4RW	COVINGTON	TN	-	-
2/23/06	33339	OLENDORF, WILLIAM C, JR	K4KOA	YEMASSEE	SC	-	-
2/23/06	33340	DAVIS, DEAN W	KL7OR	SALEM	OR	-	-
2/24/06	33341	BITTEL, PHILIP W	K1DXA	BURLINGTON	CT	JOHN B JOHNSTON	W3BE
2/27/06	33342	KEISER, ANNE M	KO3M	LEHIGHTON	PA	WILLIAM THOMPSON	W2MTA
2/27/06	33343	HORTON, LEE W	W5IAV	GLEN ALLEN	VA	VIC CULVER	W4VIC
2/28/06	33344	NORRIS, DAVID A	K5UZ	BATESVILLE	AR	-	-
2/28/06	33345	SMALLWOOD, DARRYL F	K1EQD	PATTEN	ME	DAVID W REGO	W1GCA
3/1/06	33346	PRICE, JAMES B	VE3CDA	OTTAWA	ON	DOUG LEACH	VE3XK
3/2/06	33347	MILLER, ALBERT D	WA2FBT	ENDICOTT	NY	W THOMPSON	W2MTA
3/2/06	33348	FOX, ROBERT A	NM2D	BINGHAMTON	NY	W THOMPSON	W2MTA
3/3/06	33349	HOOLIHAN, RICHARD A	W6AFF	ALPINE	CA	-	-
3/6/06	33350	BENNETT, JACKSON J	W4ZPR	NORFOLK	VA	-	-
3/6/06	33351	RASHLEIGH, NORMAN	VE3LC	OTTAWA	ON	MARGARET HEASLIP	VE3EQE
3/7/06	33352	HERRING, ROBERT W	K14LUE	ALTAMONTE SPRINGS	FL	AL LA PETER	W2AS
3/7/06	33353	GRABEL, SIGMUND M	WB2GFB	BROOKLYN	NY	-	-
3/7/06	33354	PEVERALL, LAWRENCE V	W4OGZ	VIRGINIA BEACH	VA	VIC CULVER	W4VIC
3/8/06	33355	CROWELL, EDWIN A, III	W5TWR	THE VILLAGES	FL	JOHN ENOT	W4JJE
3/9/06	33356	REIN, MICHAEL F	KA4JJD	CHARLOTTESVILLE	VA	VIC CULVER	W4VIC
3/9/06	33357	JERMAN, JAMES A, JR	W3SCD	MILLERSVILLE	MD	LESLIE T JAMISON, JR	WR3X
3/9/06	33358	SLAGLE, JAMES A	K4REL	HAMILTON	VA	-	-
3/9/06	33359	MARSH, ROBERT H	NB5O	EL PASO	TX	MANUEL R GONZALEZ	W2BFI
3/10/06	33360	SCHULERT, JAMES F	A14LE	DAVENPORT	FL	ALFRED LA PETER	W2AS
3/13/06	33361	KANTER, ELLIOTT S	W4PGI	SMYRNA	GA	-	-
3/13/06	33362	HAJDAK, ROBERT M	N8CMZ	TALLMADGE	OH	-	-
3/13/06	33363	ECKERT, ELLIOTT E, JR	K1MF	WEST HAVEN	CT	-	-
3/15/06	33364	ROCKEY, JAMES A	WA7SRZ	LYNNWOOD	WA	-	-
3/17/06	33365	LEYDEN, DONALD F, JR	N8DFL	NORTH ROYALTON	OH	-	-
3/17/06	33366	ST AMANT, RICHARD G	W8PDV	THE VILLAGES	FL	JOHN ENOT	W4JJE
3/20/06	33367	KIRWAN, LEE D	WA0AVA	LEAWOOD	KS	-	-
3/20/06	33368	MARTIN, DANIEL	W1MKF	KINGSTON	RI	-	-
3/20/06	33369	GAMELIN, CHARLES E	K1RIO	CORNELIUS	NC	-	-
3/21/06	33370	CUDD, ALBERT L	KS4T	STANLEY	NC	JACK EMERSON	W4TJE
3/21/06	33371	MILLER, JOSEPH EDWARD	KA3AYK	BELTON	SC	JACK EMERSON	W4TJF
3/21/06	33372	SPIEGEL, TONY R	KC8UR	MT VERNON	OH	-	-
3/21/06	33373	THOMPSON, KERRY J	W4FWC	CANTON	GA	-	-
3/21/06	33374	ADLER, MARK S	K2MSA	MASSAPEQUA	NY	-	-
3/21/06	33375	MC DERMOTT, J EDGAR	NS5N	APO	AE	-	-
3/21/06	33376	ARNOLD, DAVE	AL7D	YUMA	AZ	-	-
3/23/06	33377	SHOOK, WILLIAM H	K2OH	APALACHIN	NY	WILLIAM W THOMPSON	W2MTA
3/27/26	33378	OLDFIELD, ALLEN S	W9KXI	HORSEHEADS	NY	-	-
3/27/06	33379	JOHNSON, MARSHALL D, SR	KK7CW	THE DALLES	OR	-	-
3/27/06	33380	REPASS, BILL	K5AAL	MISSOURI CITY	TX	-	-
3/27/06	33381	TOIA, MICHAEL	K3MT	GREAT FALLS	VA	JOHN B JOHNSTON	W3BE
3/27/06	33382	DUNCAN, ALLAN J	N8DQU	LUPTON	MI	JAMES F BISHOP	W8JFB
3/27/06	33383	HALE, WAYNE	W6IZK	SIOUX FALLS	SD	BILL DEWS	K6AWO
3/27/06	33384	LYNCH, ANTHONY EDWARD	W0IU	LAKE CITY	MN	-	-
3/30/06	33385	KIRWAN, TOM	W7KIR	LONGVIEW	WA	-	-
3/30/06	33386	YORDY, KAREN KAY	KA5EPR	DIAMONDHEAD	MS	WILLIAM R YORDY, SR	W5RWF
3/30/06	33387	HANCOCK, STEVEN M	N3FWE	MANCHESTER	PA	-	-
3/30/06	33388	ZEITLIN, DAN	K2YWE	ANNAPOLIS	MD	CHUCK HASTINGS	W3PJ
3/30/06	33389	CROSS, JAMES ELMER, III	W13N	LAUREL	MD	JOHN B JOHNSTON	W3BE
3/30/06	33390	RENOUD, ROB	K3RWR	CROFTON	MD	JOHN B JOHNSTON	W3BE

(continued from page 37)



Gene Bradfield, K0TIW (seated). Standing directly behind and on the left is Katie Bradfield, KB0DKD. Then continuing to the right is Jan Scheuerman, WA2YL, and Joy Speck KE4PIF. Standing in the back row from left to right is Tad Burik, K3QC; John Johnston, W3BE; Bob Speck, W4MPJ; Hugh Pulliam, W4SEM; and Gene Baber, W8SZU.

Gurka, WB2FAU. This annual celebration of Mr. Edison's birthday gets international attention.

Our Chapter Secretary, Jan Scheuerman, WA2YL, and myself have been very involved in QCWA Administration committee work under the direction of Ed Yoder, W3YMB. If you ever wondered what a director does you can be assured they take on some very difficult tasks. Chairman Yoder will make presentations at the annual Board of Director's meeting regarding the committee work.

World travelers and former local National Traffic System net control operators, Gene and Katie Bradfield, K0TIW and KB0DKD, have moved to Appleton, Wisconsin, but they will visit next winter.

I am very proud and happy to announce that Jan, WA2YL, has submitted a personal reference for a young and deserving ham to compete in the QCWA scholarship program. We will definitely keep everyone posted on the outcome. The scholarship program is the best way to promote education and encourage our young hams to excel.

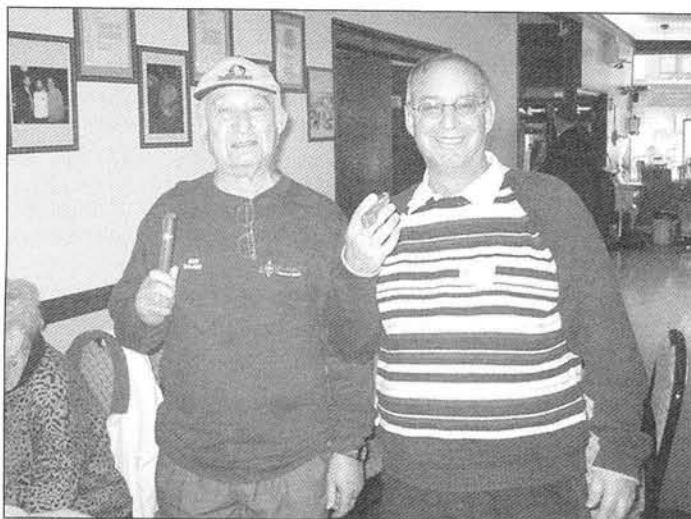
Since our last report we have had the honor of visiting with John Johnston, W3BE, our international President and his wife Betty, N3PKX. Former President Croft Taylor, VE3CT, also stopped in to join us for a lunch.

Gene dazzled us with some top rate harmonica playing and he is now up for an Oscar and a Grammy.

Tad Burik, K3QC, President

Chapter 208, New York Harbor (NY)

The New York Harbor Chapter, based in Brooklyn, New York, honored Benjamin Lutwick, W2JGD, at its Annual Meeting on December 18th, 2005. Licensed continuously since 1936, he will receive his 70th Year Certificate at an upcoming meeting. Festivities included opening remarks by the Chapter Chaplain, Jeffrey Siegel, KC2IFT, on



Benjamin Lutwick, W2JGD (L) with Jay Hyman, (R) enjoying event cigars. Lillian, XYL of Benjamin (seated) having a good time. (Photography by members Charles Sudranski, W2XY; his XYL, Iris, WA2DNK, supervising.)

"Spirituality and Ham Radio," a delicious kosher lunch at a barbecue restaurant, and the ongoing discussion of repealing Ohm's Law. For further information contact either Jay Hyman, W2CSS@arrl.net or Chapter Secretary Steven Hatkins, KC2CCX@arrl.net.

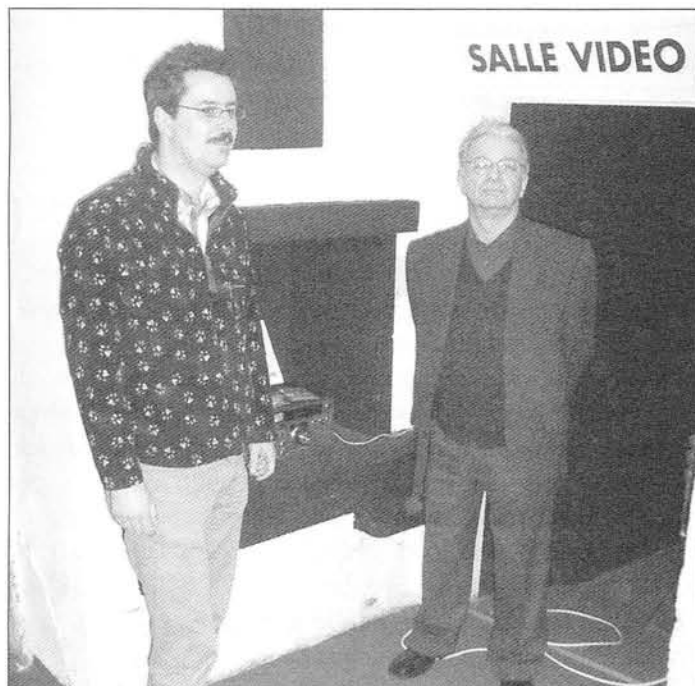
Jay Hyman, W2CSS

Chapter 209, Helvetia, Switzerland

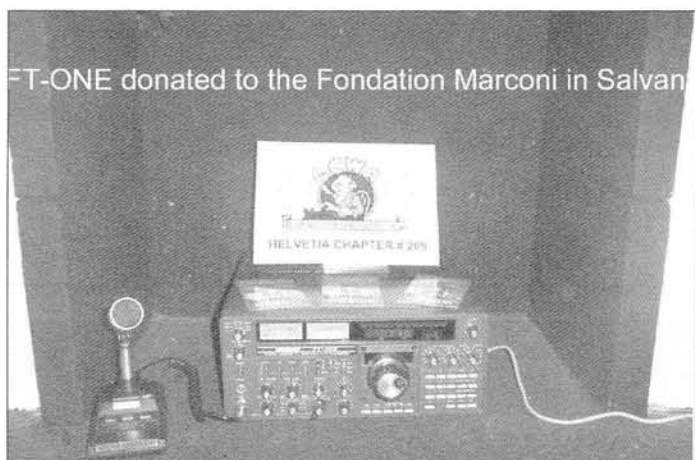
We had two main activities during the year 2005.

Max, HB9RS, President Emeritus Helvetia Chapter 209 had again an excellent idea. Why not try to provide the HB9GM call sign to the Foundation Marconi in Salvan Switzerland? HB9GM as HB9 Guglielmo Marconi. What has Salvan to do with Marconi? Marconi stayed in Salvan, Switzerland, during Summer 1895. There he successfully sent a message farther than a kilometer away. The Foundation Marconi runs a museum and a didactical trial in Salvan, remembering what happened in 1895. Max already had a discussion with Prof. Yves Fournier, President of the Foundation Marconi. There Mr. Fournier agreed with having an amateur radio station with the call HB9GM in the museum.

As Edouard Maeder, the original holder of the HB9GM call sign passed silent key in 1998, we thought that the time has come to make things move. HB9ACA, Manfred, Chapter 209 President, got in touch with the OFCOM (Swiss Office of Communication). They kindly delivered the HB9GM call sign to the Foundation. Then Gerard, HB9TV, Chapter 209 member, said that the museum needs a transceiver to operate. As the museum had no station, he decided to donate a FT-ONE amateur radio transceiver. To complete the station, the Helvetia Chapter 209 printed the HB9GM QSL for the museum.



Professor Yves Fournier, President, Fondation Marconi Salvan, Switzerland. On the right is HB9TV, Gerard.



FT-ONE donated to the Fondation Marconi in Salvan



Prof. Yves Fournier receiving the HB9GM QSL cards from HB9ACA, Helvetia Chapter # 209 president

Professor Yves Fournier receiving the HB9GM QSL cards from HB9ACA, Helvetia Chapter 209 President.

Most of the Helvetia Chapter 209 members went to Salvan on the 7 May 2005. During a short official part, HB9TV and HB9ACA made the donation to Prof. Yves Fournier. After that we all sit together eating a typical Swiss Cheese Fondue in a nice restaurant in Salvan. To learn more about the Fondation Marconi in Salvan please visit: <http://hb9gm.radioamateur.ch/>. There use the link leading to the foundation. Even we passed a nice day in Salvan we are sad today, because this meeting was the last we spent together with Gerard, HB9TV. Gerard passed silent key shortly after the excellent day we had in Salvan.

We decided to help the 4U60UN activity in designing and printing the special activity QSL cards. As the decision to run the 4U60UN activity has been taken mid November 2005, all had to be done fast. Thanks to Gennady UX5UO who delivered us the cards end of December 2005.

During the annual meeting on the 29 October 2005 we reviewed the year 2005 and decided what to do in 2006.

Herbert Aeby, HB9BOU, Secretary

Chapter 213, Fresno (CA)

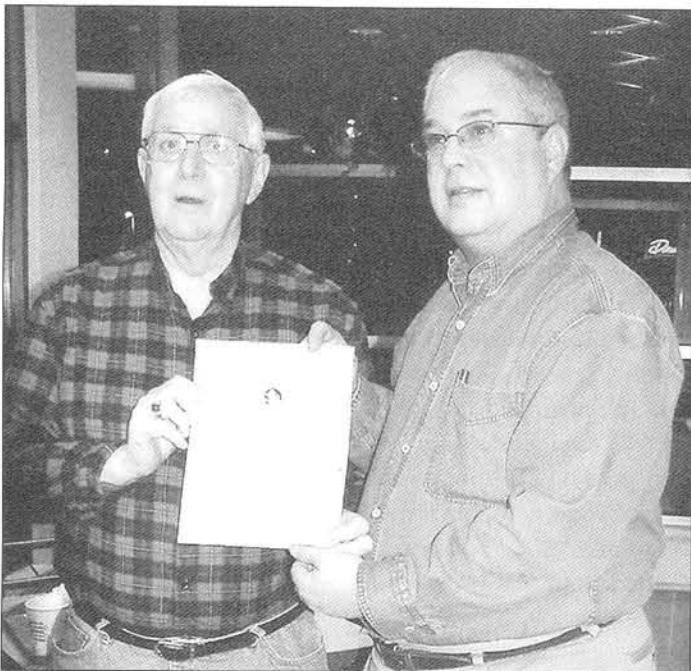
Chapter 213 continues to meet on the 4th Tuesday of the month at Carrow's Restaurant, 4280 N. Blackstone in Fresno. All QCWA members are welcome to attend. Tom Kipps, KA6Z, was presented a 70-Year Certificate. Sec/Treas Charles McConnell, W6DPD, was listed in the 2006-2007 edition of Who's Who in American Education. Our Chapter was active in the Spring QSO Party.

Charles McConnell, W6DPD, Secretary/Treasurer

Chapter 214, Bluegrass (TN)

This past November 10th the Chapter held its' annual meeting for election of Officers for the 2006 year. Elected were, KZ4G, Dave Vest as President, and W9PW, Matt Tinker as Secretary. After Elections dinner was enjoyed by everyone, and catching up on events from the past few months. Members attending besides Dave and Matt were Pete Stark, K4OM; Roger Castle, K4QYK; and Dave Comstock, W8HYX, was unable to attend due to some health problems. Everyone had a great time, and caught up on activities, trips, vacations, and of course Ham Radio.

On January 12, 2006 the Bluegrass Chapter met at Tim Hortons in Ashland, Kentucky for the first meeting of 2006. President, Dave Vest, KZ4G presided. In atten-



Dave Vest, KZ4G, (left) being presented with a Certificate by Matt Tinker, W9PW (right).

dance were Roger Castle, K4QYK; Pete Stark, K4OM; and Matt Tinker, W9PW. On the agenda for the evening were the presentations to Dave Vest for his 50 Years of Continuously Licensed Certificate, and Dave's QCWA Gold Certificate to celebrate the 50th anniversary of licensing. (see photo) We all congratulate Dave for this great achievement. After the presentation, everyone enjoyed some coffee and snacks, and spent the balance of the evening discussing ham radio. Members new equipment, DX contacts, and some good war stories were enjoyed past some of our bedtimes. The Bluegrass Chapter will, over the next few weeks and months, attempt to consolidate Kentucky QCWA members into one club for our great state. We look forward to hearing from all QCWA members in Kentucky, and those that want to join the QCWA. Give us a call at any time. Give Dave Vest, KZ4G (606-836-4116), or Matt Tinker (606-324-8752) a call to get the ball rolling. Before ending the evening, a March 2006 meeting was scheduled.

Matt Tinker, W9PW, Secretary

Correction: We were notified that in the last Journal the review of "The Secret in Building 26" contained an error. Japanese Admiral Yamamoto died when the bomber in which he was flying was shot down by a flight of P-38 fighters from Henerson Field on Guadalcanal.

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My Town House Antenna Farm

Reprinted from Monday, November 29, 2004, March/April 2005 TCA Article by David Conn, VE3KL.

Introduction

This article addresses the difficult problem of selecting and designing suitable antennas for use in a very restricted space.

My Town House like many has a back yard that has a foot print of only 25 by 25 feet. This small foot print limits the types of antennas that are practical. However, I have designed, constructed and tested a simple Vertical Ground Plane Top-Hat antenna that works well on several bands: 40, 30, 20, 10 and 6 metres. The antenna is a plumbers' delight that does not contain traps or resonant coils.

In this article, I describe this antenna and show what can be accomplished with such a simple structure. I also describe how to modify this antenna to perform well on other bands such as the 12, 15 and the 17 metre bands. The antenna is self resonant at 10 MHz, making it nearly resonant on 30 and 50 MHz. Operation on the 40 and 20 metre bands requires a simple L type matching structure at the base of the antenna while the 30, 10 and 6 metre bands can be used with a simple antenna tuner at the station. I use my ICOM 756 internal tuner for these low VSWR applications. On-air tests were performed at an output power of 80 Watts.

Antenna Design Requirements

Before designing and building the antenna, the requirements were first defined. They are:

- The antenna should be simple to make from materials that are readily available.
- A tower should not be required.
- The performance should be comparable to but with less gain than an inverted V or half wavelength dipole mounted one half of a wavelength above the ground.
- The antenna should have reasonable gain at elevation angles near 20 degrees for good DX operation.
- The antenna should operate on several bands with simple tuning elements. This means that the VSWR of the antenna before tuning should be less than 20:1 and preferably be less than 10:1 for easy matching. It turns out that the selected antenna has a VSWR of less than 2:1 on 30, 10 and 6 metres while requiring a simple "L" type tuner on 20 metres and a simple series inductor on 40 metres.
- The antenna should be capable of operation up to 300 Watts PEP without stressing any tuning elements. Normal operation is at the 100 Watt level that is commonly used with commercial transceivers.
- The complete system should not interfere with television and other electronic equipment in the neighborhood and power line noise at the receiver should be minimized.

Antenna Description

The chosen antenna consists of four components:

- a Vertical Top-Hat Antenna made from aluminum pipes,
- a ground radial system consisting of a minimum of 8 radials (16 radials are better)
- an antenna tuner
- and a noise suppression/grounding system.

The noise suppression/grounding system was described in the March/April 2004 issue of TCA where grounding stakes were included.

The grounding stakes are not necessary for the vertical antenna since a grounded radial system is used. In addition, there should be some form of lightning suppression system added for safety. Lightning arrestors that use gas discharge tubes are available from most Amateur Radio outlets.

The Vertical Antenna

The antenna, see Figures 1, 2, consists of three 6061-T16 aluminum pipes that fit loosely into each other and are riveted together. A Top-Hat that is welded to the top section is added to elevate the current distribution for enhanced gain and proper resonance at the bands of interest. The antenna is 20 feet high. Aluminum piping is readily available from most metal shops. I use material from the Metal Super Markets in Ottawa. Note that these pipes are not precision telescoping units that are used in commercially available antenna systems.

A small aluminum shim was used to assure good electrical contact between the bottom and middle section. This shim is not needed for strength but only for good electrical contact. The antenna is clamped to my back porch as shown in Figure 3 by the use of two pieces of PVC pipe. It is supported at the bottom with a PVC end cap that is mounted on top of a square piece of Lexan. The two PVC pipes are 12 inches long and mounted 4 feet apart (centre-to-centre).

A large Aluminum plate is used as a common ground connection for the radials. Notice that there are eight radials connected to the system at the time when the photograph was taken. If you have not built antenna structures before, I recommend that you get advice from your local ham community and/or read the ARRL Antenna hand book, any edition, for more information. Designed using EZNEC, the dimensions for this antenna are given in Table 1.

Ground Radials

The question of ground radial design always emerges as one of the most important considerations for the design of ground plane antenna that uses buried radials. The ARRL Antenna Book, any edition, presents a good discussion about the design of your radial system. The questions to be answered are:

- How many radials should you use in a buried system?
- What is the proper length of the radials?

- What wire gauge should be used? And
- How much loss will be encountered?

The Number of Radials

In general, the ground loss will be less as you increase the number of radials. Of course there is a practical limit. The use of 16 radials produces a loss in gain of approximately 3 dB relative to a perfect ground plane. A system of 24 radials only picks up approximately 0.5 dB (0.08 S units) with respect to a 16 radial system. My analysis using EZNEC indicates that a radial system of only 8 radials loses 1.5 dB over a 16 element radial system. I recommend that you use 16 radials if you have the space but a compromise system will work fairly well if you can only accommodate 8 radials in your back yard/garden.

The use of a large number of radials helps prevent common mode currents from flowing on the outside of the coaxial cable back to the transceiver. This helps in many ways including the suppression of TVI and other interference to telephones and electronic equipment.

Don't worry about keeping the radials perfectly straight. You can also bend the radials to change directions near fences and other obstacles. I try to use a two foot radius for the bends.

Radial Length

The length of the radials is not critical but try to keep them at least 0.15 wavelengths long at the lowest frequency of operation. I use radials that are 7 metres long but due to space restrictions, some were reduced to 6 metres. Ideally it is a good idea to spread the radials out in a 360 degree fan shape but you might have to compromise and crowd them into a half fan due to space restrictions. Just do the best that is possible and get on-the-air. The main thing is to put the radials solidly into to ground so that they provide a stable reference for your antenna.

Wire Gauge

The wire gauge is not critical from a point of view of antenna loss but I use number 14 gauge with the view of the life time of the system. A low cost source of copper wire can be found at electrical outlets that supply 100 Amp copper wires in bundles of 7 strands that are used for house grounding.

Matching

Since the actual impedance of a vertical ground-plane antenna depends on the local environment and the radial system, you should measure the VSWR of your system before building a special purpose antenna tuner. This antenna needs tuning for the 40 and 20 metre bands and possibly some small tuning for the other bands.

Table 2 shows the measured VSWR at the antenna input terminals as a function of frequency with no tuning network connected.

The antenna resonates very close to the 30, 10 and 6 metre bands. As expected, the VSWR is less than 2:1 for these bands. Hence, there is no tuning required for these bands.

However, you can use your transceiver automatic tuner or a

manual tuner to mop up the excess VSWR measured at the transceiver. Be careful trying to use a tuner at the transceiver when the VSWR is less than 2:1 as the tuner, like mine, can have more insertion loss than the VSWR loss that you are attempting to correct. I turn my tuner off when the VSWR is less than 1.5:1.

The VSWR at the 20 metre band is approximately 9:1 with a resistive component of the input impedance around 150 Ohms. High impedance can be matched with a simple L type tuner, see Figures 3 and 4, (a capacitor connected across the antenna terminals and an inductor connected from the antenna terminal to the coaxial feed cable centre conductor). The ground pad for the radials is shown in Figure 3 along with the tuner and the Lexan base insulator. The values needed for matching my antenna are approximately 90 pF and 1.65 uH. The capacitor used is a 240 pF, 2400 Volt air variable Hammond capacitor.

The measured VSWR at the forty metre band is quite high as expected. The worst case is 17.8:1 at the low edge of the band. My analysis for the 40 metre band indicates that the total resistance of the antenna is close to 20 Ohms, with a capacitive reactance of 150 Ohms. The analysis predicts that the use of a 3.4 uH series inductance can be used to give an approximate match for the forty metre band. Tuning with a single coil results in an average measured VSWR of 1.75:1 over the 40 metre band with a worst case of 1.92:1. A simple L matching tuner can be used to obtain a better result. In this case put the capacitor across the antenna terminals.

Performance

The performance of this antenna was evaluated from EZNEC predictions, measured values of the VSWR, and on-air tests. As a reference, remember that a half wavelength dipole at a height of one half wavelength has a gain of approximately 6 dBi at an elevation angle of 27 degrees. The predicted performances for this antenna at 10 and 50 MHz are shown in Figures 5 and 6 respectively. Note that the gain at 10 MHz is approximately -1 dBi and the gain at 50 MHz is 2 dBi. The other bands produce a gain of approximately 0 dBi at an elevation angle of 27 degrees. The elevation pattern for the antenna at 50 MHz is quite interesting. Note the high and low angle lobes and a small null around 45 degrees.

It is always important to confirm the theory and measurements with on-air performance. This antenna has been tested during October/November 2004 using my 80 Watt transmitter during which time 147 QSO's were made. Here are some of the highlights:

- An Aurora **6 Metre** CW QSO during the November 8, 2004 Northern Lights spectacle.
- **10 Metre** DX CW QSO's from Europe and South America during a 10 metre opening in October, 2004. Also worked DX CW QSO's (VP2,V47, J7) during the CQ WW DX contest on November 27, 2004.
- Many **20 Metre** DX QSO's including Europe, Africa, Japan, and South America.

- Several very interesting **30 Metre** DX CW QSO's from Europe, Japan, Africa, Antarctica, and an IOTA VY0 QSO from the Belcher Islands (NA196).
- Several **40 Metre** short-skip QSO's and one DX QSO on this band. Not much to report on this band as I have only spent a couple of days operating 40 metre CW.
- No stations heard from VK or ZL. I suspect that there is a null in the azimuth pattern in that direction due to the location of the antenna on the northern side of my house.

Scaling to Other Bands

The antenna can be scaled to other bands by simply changing all dimensions as follows for a first analysis before a detailed study using EZNEC or by conducting experiments.

$$\text{Antenna Height} = 200/\text{Freq} \text{ [Feet]}$$

$$\text{Top-Hat Length} = 40/\text{Freq} \text{ [Feet]}$$

Where, **Freq** is the desired lowest resonant frequency in MHz. For example, if **Freq** equals 21 MHz, then the antenna height equals 9.52 Feet and the **Top-Hat Length** equals 1.904 Feet. There is no need to modify the radial system as it is non-resonant.

Summary and Conclusions

As usual, a vertical ground plane antenna produces lower gain than the good old dipole, Yagi or Quad antenna.

However, it is easy to make, does not use much space, and gives a reasonable performance over several bands. The antenna must be tuned at the base on some of the bands. You might consider the purchase of an automatic antenna tuner for this antenna but remember to check the specifications of the tuner. Will it match to the VSWR that you measure? Will it tune out small reflections less than 1.5:1? Does it have a bypass mode of operation? Will it operate at temperatures down to -30 C or lower? How much DC power does it consume? This is important for battery operation.

Acknowledgements

I wish to thank Graham Ide, VE3BYT, for encouraging me to include the 6 metre band for this antenna design and for supplying coils and connectors for the antenna tuner. I also thank Bert Barry, VE3QAA, for his suggestions about the design of the Top-Hat.

Thanks to "The Canadian Amateur" magazine, published by Radio Amateurs of Canada, Inc. for granting permission to reprint this article by David Conn, VE3KL.

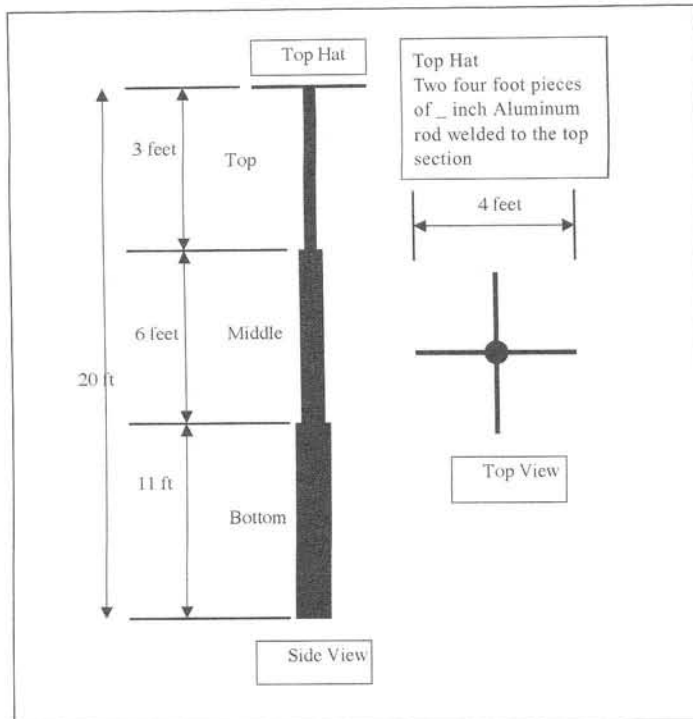


Figure 1. Drawing of the Vertical Top-Hat Ground Plane Antenna: Note that each section is inserted 10 inches into the section below.

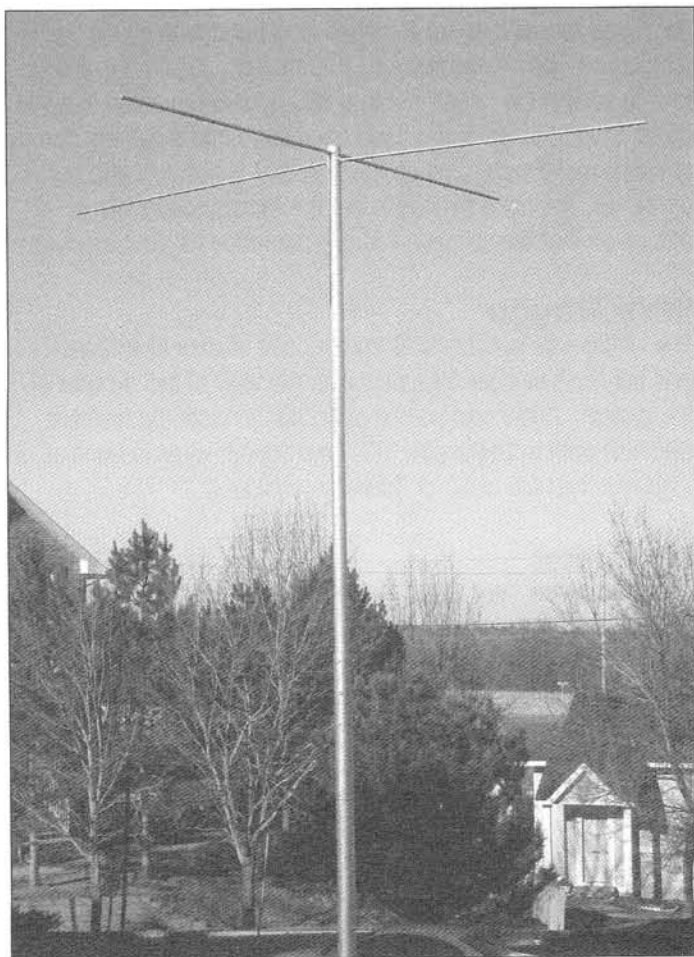


Figure 2. Photo of antenna: Top-Hat welded to the top section of the antenna.

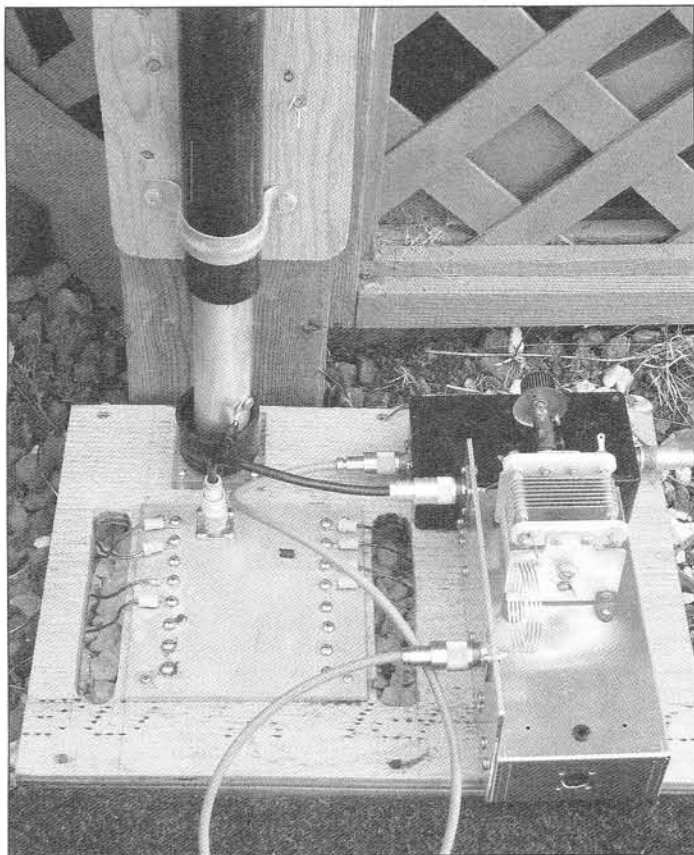


Figure 3. Photo of the Mounting Structure: The antenna input terminals are defined as the coaxial input at the ground plane. (Measured VSWR referred to this point)

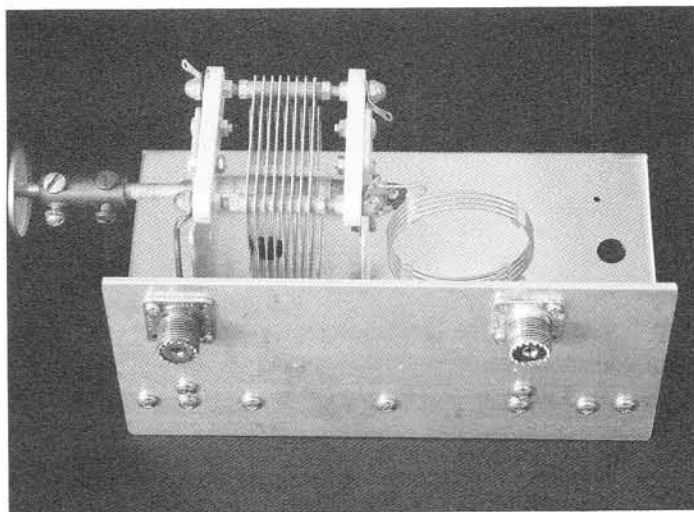


Figure 4. Photo of the 20 Metre Tuner

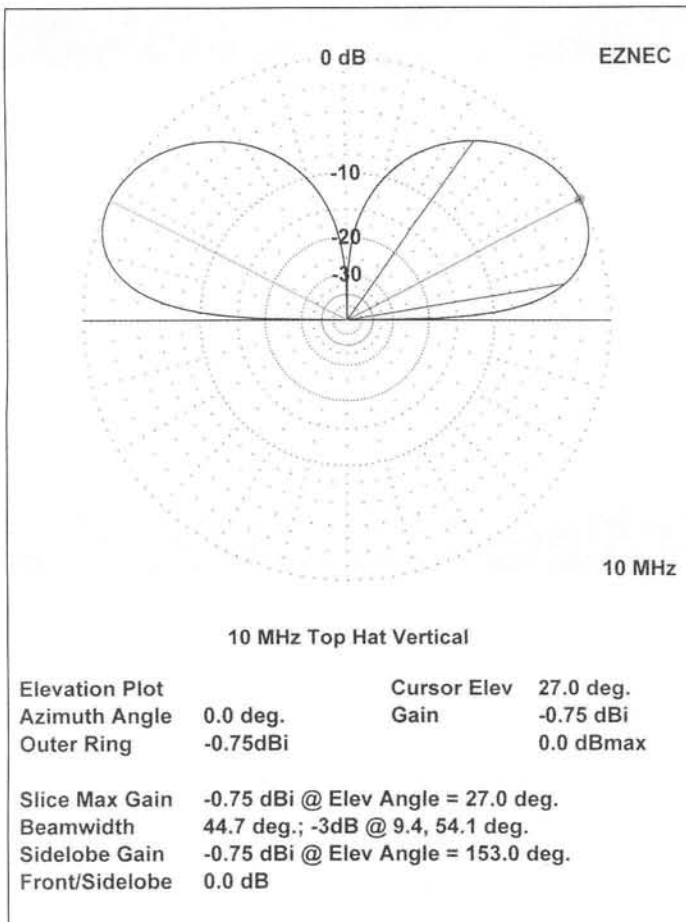


Figure 5. Elevation Plot: 30 Metres

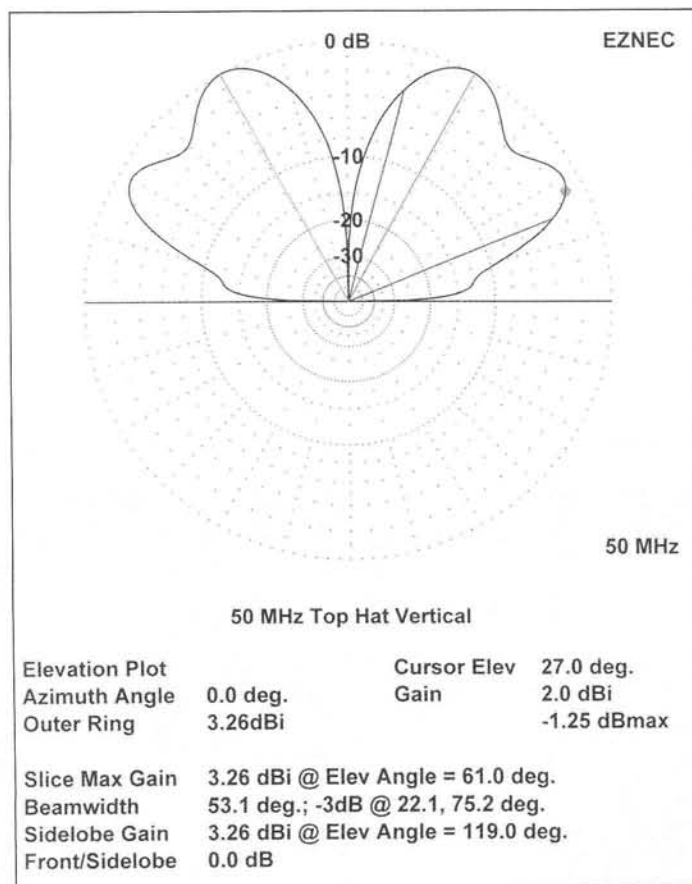


Figure 6. Elevation Plot: 6 Metres

	Length (Feet, Inches)	Outside Diameter (Inches)	Wall Thickness (inches)
Lower Pipe	11 Feet	1.5	1/16
Middle Pipe	6 Feet 10 Inches	1.25	1/16
Top Pipe	3 Feet 10 Inches	1.0	1/16
Top-Hat	4 Feet Overall (Two crossed sections of Aluminum rod)	0.25	NA

Table 1. Antenna Dimensions: Note that the middle and top pipes are inserted 10 inches into the adjoining pipe and connected using rivets near the top and 8 inches below the connection.

Frequency (MHz)	Corrected VSWR - Measured
7	17.8
7.1	16.1
7.2	13.3
7.3	11.3
10.1	1.73
10.12	1.78
10.15	1.84
14.0	8.64
14.1	8.64
28	1.66
28.5	1.23
29	1.07
29.5	1.24
50.0	1.16
50.5	1.43
50.98	1.78

Table 2: Measured VSWR vs. Frequency for the un-tuned Vertical Top-Hat Antenna. The measurements were taken at the output of the transceiver and corrected for the loss in 24.5 feet of RG8/X coaxial cable.

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CHAPTER 91	W3DUG & W4ZC	CHAPTER 55	W9IHW
CHAPTER 64	K15DH	CHAPTER 55	W9UPM
CHAPTER 63	K5VCH	CHAPTER 21	W8GAC

RANDOM RECOLLECTIONS OF AN OLD HAM

The W1AW Fire & Government and Served Agency Contacts

A Journalistic History of The Life and Times in Amateur Radio of George Hart, W1NJM
by George Hart, W1NJM

One morning in October of 1953, I believe it was, I was awakened at six o'clock by a ringing doorbell and pounding on my front door. It was a police sergeant whom I knew slightly asking if I had some connection to "that radio station on Main Street." When I assented, he told me it was on fire, so I hurriedly dressed and went over there, to find all the doors forced open and smoke and steam pouring out of the little brick building. The area was surrounded by fire equipment and police vehicles. The fire was nearly under control, and when I finally gained access I found a big circular charred hole in the floor behind the operating position and extensive smoke and heat damage. Of course the building was covered by insurance, but we had operating schedules to maintain. Mr. Handy was away on a field trip at that particular time, the first time I had been left in charge of the department, of which W1AW was a part. I managed to get in touch with him by telephone and he told me I would have to handle it because he felt obliged to continue his trip. It was the first big problem I was faced with as the No. 2 man in the department.

The first order of business was to get the station back on the air as soon as possible, so work started as soon as the building was declared safe. The insurance adjuster showed up, the electrician who originally wired the building was contacted and Ed Gruener himself, one of the owners of the electrician firm, appeared clad in coveralls and with a toolbox. It was determined that the fire had started in a junction box mounted between the joists in the basement, very close to the charred hole in the floor. The hole was covered with planks until permanent repairs could be made. A painter was hired to deal with the smoke damage, which required repainting the entire interior of the building. Another firm was retained to deodorize the building, which had filled with smoke before the firemen broke in the doors. Meanwhile, frantic work progressed in restoring the equipment. A great deal of heat damage had been done. I was told by firefighters that the building contained a number of "fire blocks" that caused the fire to progress slowly, with much smoke but little flame, otherwise the building and everything in it surely would have been a total loss by the time the fire was discovered.

I have to admit that I did very little of the actual work, and I remember that John Huntoon, second in command to General Manager Budlong, did a great deal of it, along with Murray Powell who was chief W1AW operator and his assistant, Tom McMullen. Thanks mainly to their efforts and Ed Gruener's prompt action in replacing burned wiring, the station was back on the air that same night. Not a single scheduled transmission was missed, and most of the W1AW listeners were never aware that there had been a

major fire until it was reported in QST. Many of the repairs were temporary and makeshift, but they kept us going until permanent repairs could be made.

Ed Handy, on his return, roundly criticized me for many actions I had taken as a result of the fire. It took me aback, because I thought I had done pretty well. In retrospect, I realize now what was behind the criticism. Ed was under considerable pressure from management and the Board of Directors at this time and he was chagrined at how well I had done, afraid it would damage his position even further. No one actually heaped me with praise, but Ed was the only one who openly criticized my actions.

Ed Gruener said the fire was probably caused by a loose screw on a solderless connector inside the box, causing the connector to arc under heavy load. The fire had probably started before Murray closed the station at 3 a.m. and smoldered for a couple of hours afterward, until the smoke was noticed by a passer-by. The volunteer fire department got the call at about 5 a.m.

And here's something I have never told anybody about the fire. A couple of days afterward, Murray Powell came to me and confessed that the fire might have been caused by a cigarette disposed of in a waste basket and not fully extinguished. I told him to forget it, the origin of the fire had already been determined and I cautioned him not to mention this to anyone else. Later I made a close examination of the area beneath the operating position and determined that the fire could not have started in the wastebasket. True, the area under where the wastebasket had been was badly scorched, but the scorch marks were heavier near the junction box and I concluded that Ed Gruener had been right and that Murray was in the clear. I have not looked in many years but no doubt the scorch marks along the joists near where the main operating position had been are still there. I remember asking Ed if the presumably faulty connector would be replaced by one which could not arc. He said no, it would be replaced by an exact duplicate, that the chances of it happening again were so remote as to be negligible.

The W1AW fire was written up in a vignette published in QST some time in the 80's, probably '88 or '89 when we were celebrating the 50th anniversary of the dedication of the new W1AW in Newington. Previous coverage has been given to that first dedication in 1938, at which I was present as a spectator. I was also present at the 1988 dedication and this time I was allowed to make a presentation, text of which is included herewith as an appendix.

"I did not much like skulking around government and other agency offices, mostly in Washington, but my position as the man primarily involved with amateur radio communications services required it I grew to have an overwhelming hate for that city, so beautiful in places, so ugly and depressed in others,..."

W1AW was refurbished twice, the first in 1963-4 after the headquarters moved from 38 La Salle Road to Newington. Each refurbishment was a complete transformation of the inside of the building. In the first, all the old transmitters built by Hal Bubb and the Technical Department staff were moved to the basement to continue operating while new equipment was being installed upstairs. An entire rearrangement was effected, using a common exciter built in the ARRL Technical Department laboratory to drive kilowatt amplifiers custom-built by Bill Orr, W6SAI, at Eimac on the west coast. Ed Handy was nearing the end of his 42-year career as ARRL's Communications Manager during that first refurbishment. He retired in 1967 and the last W6SAI amplifier was installed a year later. The second refurbishment used all commercially-built equipment, amplifiers by Harris. While the building was being refurbished and the Harris amplifiers and new commercially-built antennas installed W1AW continued operation from a temporary structure alongside. So we went from our own amateur-built equipment to equipment built especially for us to commercially-built equipment, paralleling the general trend in amateur radio through the 74 years (so far) of my amateur radio experience. But this, again, is getting ahead of the story.

GOVERNMENT AND SERVED AGENCY CONTACTS

I served as "National Emergency Coordinator" at ARRL for over 17 years, from late 1948 when Doc Hayes left to early 1967 when Ed Handy was forced to retire. I was, in effect, the deputy communications manager during all that time, in complete charge of the department whenever my boss was on vacation or on an extended field trip. Ed Handy was very popular in the field and was sent out often, especially for affiliated club contacts. During this period we established a good working combination and a firm personal friendship. Occasionally I was irritated when he marked up my copy for QST or a bulletin, transforming what I considered my educated prose into his rambling, wordy, hard-to-follow phraseology, and eventually I refused to put my name to anything he so modified. Most of the time, however, our association, both business and personal, was serene. Ed conducted his department of some 15 people in

a manner leaving no question as to who was the boss and, in my opinion, not in a very organized manner. There were no distinct lines of communication or authority. He was the boss, I was his deputy and in his absence I tried to conduct the department as I felt he would conduct it. The only instructions he left me were confusing and inconsistent, so I had to "play it by ear." My attempts along this line left many with the impression that when or if I succeeded him as communications manager I would continue operation in this same manner - a manner not favored by the general manager nor by many of the directors. Ed was a friend, as well as a colleague and my boss. Although I frequently joined in the fun of those who ridiculed him behind his back but probably to his full knowledge, I would not bad-mouth him.

The Communications Department was in charge of all the League's on-the-air activities, plus conduct of the affiliated club program, which Handy had started very early in his career. This included the entire operating field organization of elected section communications managers, SCM elections and appointees, contests. Field Day, DXCC, a multitude of miscellaneous awards, AREC, NTS, W1AW, and anything else having to do with on-the-air operating. The department made no money, only spent it rendering services to members and the amateur community in general. Consequently, we were often regarded with contempt by other departments set up specifically for making the money on which the League operated - the Circulation, Advertising and Editorial Departments, and those handling other phases of operation only partially money-making such as the General Manager (Secretarial) and Technical Departments — and I always suspected that salaries of the other departments were higher on the average than ours. This never made sense to me, because working in the CD required skills and experience that could be acquired only in amateur radio, whereas other departments could draw from ordinary skills available in many fields of endeavor. This came home to me very clearly on several occasions when, fed up with conditions at ARRL headquarters, I sought employment elsewhere only to find that no one wanted me except at beginning levels because I had no experience except in amateur radio. Having been educated as a writer, I tried breaking into this field but met with very limited success.

Besides, my employment at ARRL during those 17 years kept me too busy to do much exploring. I was doing what I liked to do and didn't wish to leave, but I would have liked to be better fixed financially.

I did not much like skulking around government and other agency offices, mostly in Washington, but my position as the man primarily involved with amateur radio communications services required it I grew to have an overwhelming hate for that city, so beautiful in places, so ugly and depressed in others, but close contact with FCDA (later OCDM), FCC, Red Cross, the military and from time to time

other government and private agencies involved in civil defense and emergency problems in which we wanted amateurs to be recognized and participate, was necessary - nay, vital - to our continued image. Despite my basic distaste for much of this type of contact, I believe I made my self persona grata in most cases and a few friends to boot. In some cases the way had been paved by previous contacts made by ARRL representatives. In FCC our principal contact was with people in the Safety and Special Services Division, particularly the Amateur Radio Branch but occasionally an audience with officials higher up. In connection with the League's Official Observer program I helped maintain contact with FCC's Field Engineering division, which operated monitoring stations for enforcement throughout the nation. In FCDA I acquainted myself with whoever in

"The department made no money, only spent it rendering services to members and the amateur community in general. Consequently, we were often regarded with contempt by other departments set up specifically for making the money on which the League operated..."

Washington had anything to do with RACES, attending in the process, many regional conferences and becoming acquainted with regional officials as well as the working-level people in Washington and Battle Creek, Michigan.

Vince Kenney's NSCDARA and USCDARA became a factor in our civil defense participation and I attended many such meetings, at first in New York City but later in other places in the Northeast

MARS was also involved, at first in Washington but later Army MARS moved to Fort Huachuca, Arizona and Air Force MARS to Scott Air Force Base, Illinois. Navy MARS headquarters remained in Washington. The MARS high level personnel rotated rapidly with constant reorganizations taking place, so I had to keep on my toes maintaining acquaintance with all of them.

In retrospect, I often wonder how I handled everything, but I was in my 30's and 40's, in good health with plenty of energy. At age 87 regretfully I have forgotten many of the names of persons involved, but I remember well who they were, what they did and many personal characteristics. In the FCC, contact was with Red Rollins and Bill Grenfell. In FCDA many people were involved but very few names are remembered. I recall that we (FEH and I) received most cordial treatment at FCC's Field Engineering Bureau, including several bureau chiefs throughout the years. At the Red

Cross the man I most remember was Bob Myers. Bob was a ham and became a close friend, though often I felt he carried informality a little too far. Bob's predecessor was a much stronger person, also a ham, but at the moment of writing his name escapes me.

The 17 years prior to Ed Handy's retirement were the busiest and most productive of my 40-year career at ARRL headquarters, while at the same time they were the most pressure-ridden and happiest. At one time, in the late 50's, I became so heavily involved with the civil defense people, coupled with a personal emotional involvement, that I actually sought employment with FCDA. An opening in FCDA's first region for communications officer appeared and I actually applied for it. My application was favorably received and negotiations proceeded to the point where I was all but hired, at a civil service grade which would bring me a salary slightly higher than what I was receiving at ARRL. When I gave notice of my imminent departure from ARRL after some 25 years it caused a flurry of excitement, for I had previously mentioned it to no one except my wife, Louise. She was distressed at the necessity of moving from our comfortable little house on Highland Street but resigned to accept it as inevitable. My boss, FEH, coughed and twitched and consulted General Manager Budlong, who agreed to a salary increase which equaled what I would be given at FCDA, plus verbal promise of a good future at ARRL. In the end, I succumbed to family pressure and that of change and informed my contacts at FCDA of my decision, which was shruggingly accepted. The man whom I had beaten out for the position was then hired and progressed rapidly to higher civil service grades. I had no reason to assume that had I taken the job I would also have so progressed, but the opportunity had been there and I had blown it. I never regretted my decision, even though it was made under pressure, but this was the second time I had contemplated leaving the League and it wouldn't be the last. ■

Next time; Ed Handy Retires

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WANTED: TMC power supply PP-1769 or A-1397, Model XFK RTTY unit, and clean working SBE-3 (AO-101A) or O672A exciter. Cables, original books desired. QSL w5jv@amsat.org.

BORROW: 1968 Callbook to find old Novice unable to remember his call sign. Steve N8ZR #28,886 email: n8zr@yahoo.com

WANTED: U-shaped bracket for base of D-104 mic; activates PPT function. Contact Karl Haskell, KD5YLJ; 832-579-8877

WANTED: Ceramic ladder line separator insulators to build my own feeders. Ken, N6KB, PO Box 11288, Hilo, HI 96721 n6kb@arri.net

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3CX1200A7	4CX250B	4CX1500B	YU-108	845	M347 / TH347
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QUIZ WHIZ: Vacuum Tubes

By Craig, KL4E

Here is a quiz that may stimulate the memories of those who used "hollow state devices" before they transitioned to solid state devices. The answers are at the bottom. Good luck!

1. Rank the following in order of size: A.) 5894 B.) 832A C.) 829B What kind of tubes are they?
2. Rank the following in order of performance: A.) 417A B.) 6AK5 C.) 416B What kind of tubes are they? Who manufactured all three?
3. Fill in the blanks: 12BE6, _____, 12AV6, _____, 35W4 What was the common name for this set of tubes? Why do they go in an AC/DC radio?
4. Which of these is not a variety of vacuum tube? Loctal, Compactron, Acorn, Dymaxion, Nuvistor, Lighthouse. Who was the creator of the one that isn't a tube?
5. Rank the following in order of size: A.) 813 B.) 5763 C.) 6146B D.) 2E26 E.) 811A What kind of tubes are they?
6. What can you see on the front of a Heathkit Signal Tracer or a Gonset II (but you won't see on a Gonset III)?
7. Some tubes have a silvery material deposited near the location where the air was removed. Other tubes have a white material in the same place. What is this material called, and what's the difference?
8. Portable tube operated radios required a variety of batteries. Which of the following is not a standard "B" battery voltage? 22.5, 33, 45, 78, 90. What is the common theme of the wrong answer(s)?
9. Tube voltage math quiz: What is the difference of a 1625 minus an 807 added to the difference of an 0A2 minus an 0B2?
10. Which of the following was not a source of high voltage for vacuum tubes in various applications? Vibrator, Flyback, Dynamometer, Inverter, Dynamotor. What did a synchronous vibrator and a dynamotor have in common?

ANSWERS:

1. B, C, A. Dual tetrode transmitting tubes commonly used in VHF homebrew and commercial FM transmitters.
2. B, A, C. Low noise figure receiving tubes used in the front-end of VHF and UHF receivers. Western Electric manufactured these tubes for commercial communications circuits, and they could be hard to find other than as telephone industry pulls.
3. 12BA6 - 50C5. All American Five (there was an earlier version that used octal tubes; these are 7-pin miniatures.) There is no power transformer - the series filaments and the rectified B+ both come directly from the wall plug, so the circuit will work on either AC or DC power mains.
4. Dymaxion. This was a streamlined family car designed by Buckminster "Bucky" Fuller, creator of the geodesic dome. You can see an original Dymaxion at the Harrah's Auto Museum in Reno if you're interested.
5. B, D, C, E, A. Tetrode power amplifier tubes used singly or in groups ranging in power output from a just few watts to over a kilowatt.
6. A "Magic Eye" tube used as a tuning indicator or a meter. Because of their fast reaction time (compared to a panel meter) they were preferred for audio measurements and modulation adjustments.
7. The common name is "getter" because it is supposed to "get" the last remaining atmospheric molecules out of the vacuum inside a vacuum tube. It turns white when the tube leaks and the "getter" becomes contaminated with outside air.
8. 33 and 78. These numbers, along with 45, are the approximate RPM values that phonograph record turntable platters were capable of rotating.
9. 51 volts. The 1625 and the 807 are essentially the same power amplifier tube except for the filament voltage (12 volts minus 6 volts = 6 volts.) The 0A2 and the 0B2 are voltage regulators at 150 volts and 105 volts respectively (150 volts minus 105 volts = 45 volts.) 6 volts plus 45 volts = 51 volts.
10. Dynamometer. This is a device for measuring horsepower and is used for tuning up race car engines. Synchronous vibrators and dynamotors both used mechanical rectification to convert the (roughly) square wave high voltage AC back to DC for the tubes' B+ circuits. When I was a new USAF 2nd lieutenant I made spending extra money by rebuilding dynamotors for local 2-way radio shops around Sacramento.

This quiz was originally published in the local Anchorage Amateur Radio Club newsletter and was quite popular. The Journal has obtained it and reprinted it here for your enjoyment!

SILENT KEYS SILENT KEYS SILENT KEYS SILENT KEYS

With great sadness we record the passing of these members

NAME	CALL	MEM. #	L	SK	CITY	ST/PR
ANDERSON, ALAN C	KB8TLY	22300		MUSKEGON		MI
AZNOE, EDGAR T	WA7I	26794		RENO		NV
BEAMS, RUSS R	W8AAL	03736	L	NEW CARLISLE		OH
BLOECHLE, HARRY W	K4WP	08761		SAINT PETERSBURG		FL
BONOW, GUSTAV C	W9IHW	09137	L	PORT EDWARDS		WI
BRIGGS, LAWRENCE W	W3MSN	06537		WALDORF		MD
BROWN, ROBERT I JR	W0YHI	12807	L	LITTLETON		CO
BUSHEY, CLEO N	K3IYJ	20329		LINTHICUM HTS		MD
CHATELLIER, WESTLEY M	W5DPM	12419		BATON ROUGE		LA
DAHL, JOHN ED	W9UNB	14436	L	FRANKENMUTH		MI
DENK, WILLIAM E	W3IGU	10811	L	DEVON		PA
DWORKEN, SETH M	KC3IL	23542	L	EDISON		NJ
EDWARDS, BANNER	VE3SU	21389		PERTH		ON
ELLIS, ARTHUR M	KB0BET	22936		MARSHALLTOWN		IA
EMERY, GERARD	HB9TV	31197	L	GRAND LANCY		
FOGG, GEORGE E	W2HXG	24253		WATERLOO		NY
FREUNDLICH, JULES L	W2JGR	05962	L	MINNEAPOLIS		MN
FROEHLING, ROBERT	K0AYU	24739		PAYSON		AZ
GERLACH, LESTER O	W9UPM	29982		MUSKEGON		WI
GRAY, JOHN E	K7GFZ	21819		PHOENIX		AZ
HAMILTON, DAN H JR	W1AEQ	27345		CHARLESTON		SC
HARTMAN, CURTIS A	W2UBT	26042		ELMIRA		NY
HAYMOND, TOM H	W8CCN	03462		HENRIETTA		NY
HENNESSEE, JOHN C	N1KB	31986		NEWINGTON		CT
JARRETT, MERRICK	VE3BCZ	21770		KITCHENER		ON
JEFFREY, WILLIAM B	VE3PTM	29796		KINGSTON		ON
KNAPP, GENE P	W3BAB	30964		GLEN BURNIE		MD
MAGUIRE, CHARLES E	WA2NIC	23691		PALOS VERDES ESTATES		CA
MELANSON, WILLIAM A	W1LID	08431	L	PHOENIX		AZ
MELLEN, CHARLES	W1FH	13109		BOSTON		MA
MOORE, ALLEN C	W9JJX	02203	L	FT WAYNE		IN
MORGAN, EDWARD LEE	NM0C	19281	L	LITTLETON		CO
MORRIS, WALTER E	K4ELK	07492		MACON		GA
NAYLOR, ROBERT W	VE3AEE	21805		ELMIRA		ON
NEVRKLA, HENRY A	W3IQK	03549		PASADENA		MD
OUBRE, LIONEL A	K5DPG	18867	L	NEW IBERIA		LA
PRIOR, CHARLES G	W5COK	08893		FORT WORTH		TX
RHODES, FRANCIS E	W5OUD	12593	L	NEW ORLEANS		LA
ROMINE, KENNETH L	K5VCH	32638	L	ENID		OK
ROTHWELL, BILL	VE3FGW	29673		OTTAWA		ON
SCHUERMANN, ALLEN C	W0PFG	09358	L	STILLWATER		OK
SHULMAN, JACK M	W6EBY	04530		PALO ALTO		CA
SMITH, RUSSELL S	K3APM	27183		BALTIMORE		MD
SNOW, ARNOLD E	W1VOV	12365		FARMINGTON		CT
STANCLIFF, RICHARD H	K3AXS	19365		MEADVILLE		PA
STENGER, ROBERT M	W3KRM	17114		FAYETTEVILLE		PA
STROY, STERLING E	K7ONU	21958	L	OREGON CITY		OR
SUDER, FREDDY L	WD8L	18872		BUCKHANNON		WV
SUNDERLAND, JAMES C	VE2CB	27436		ILE BIZARD		PQ
THORNE, ROBERT A	K9DAF	26863		NEENAH		WI
UNDERWOOD, JOHN S	W8GAC	15215		UHRICHSVILLE		OH
UNRUH, ORLANDO M	K15DH	23295		EL PASO		TX
WESSEL, KENNETH F	W0QAU	07167	L	INDEPENDENCE		MO
ZITNICK, STANLEY	K6CPA	29000		FLAT ROCK		NC

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